

Stability	Unstable		Conditions to Avoid Air or moisture causes polymerization and acetic acid vapors are formed.
	Stable	XX	

Compatibility (Materials to Avoid)

Drying material can cause a reaction.

Thermal Decomposition or Byproducts

Silicon dioxide, carbon dioxide, and traces of incompletely burned carbon products.

Hazardous Polymerization	May Occur		Conditions to Avoid None.
	Will Not Occur	XX	

Section VI -- Health Hazard Data

Route(s) of Entry: Inhalation? Yes Skin? Yes Ingestion? Yes

Health Hazards (Acute and Chronic)

None known

Mutagenicity: NTP? No IARC Monographs? No OSHA Regulated? No

Signs and Symptoms of Exposure

INGESTION: May cause stomach discomfort. SKIN CONTACT: Uncured product may irritate lips, gums, tongue, and skin. EYE CONTACT: Uncured product contact irritates eyes.

Medical Conditions

Generally Aggravated by Exposure NONE KNOWN

Emergency and First Aid Procedures

SKIN: Flush with water for 15 minutes. Obtain medical attention. SKIN: Wipe off and flush with water.

INHALATION: Remove to fresh air. Obtain medical attention. ORAL: Obtain medical attention.

Section VII -- Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Remove product and use absorbent material to take care of any oil-like residues.

Waste Disposal Method

Review all local, state, and federal regulations concerning health and pollution to determine approved disposal method.

Precautions to Be Taken in Handling and Storing

Store below 90°F. Use reasonable care and caution.

Other Precautions

None known.

Section VIII -- Control Measures

Respiratory Protection (Specify Type)

Acid gas/organic vapor type.

Ventilation	Local Exhaust None	Special N/A
	Mechanical (General) None	Other N/A

Protective Gloves

Use chemical workers gloves.

Eye Protection

Use proper eye protection, safety glasses as minimum

Other Protective Clothing or Equipment

None

Hygienic Practices

Cross-contaminants of material should be removed from the skin as soon as practical, especially before eating or

smoking.

MATERIAL SAFETY DATA SHEET

15-20
825745

PRODUCT NAME: Q.D. ACRYLIC FLAT BLACK

HMIS CODES: H F R P

PRODUCT CODE: LB-1406

2 1 0

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: RICHARD'S PAINT MFG. CO. INC.
ADDRESS: 200 Paint Street, Rockledge, Florida 32955
EMERGENCY PHONE: 407-636-6200

INFORMATION PHONE: 407-636-6200

DATE REVISED : 05-25-94

NAME OF PREPARER : RICHARD'S PAINT

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

HAZARDOUS COMPONENTS	OCCUPATIONAL EXPOSURE LIMITS				VAPOR PRESSURE mm Hg @ TEMP	WEIGHT PERCENT
	CAS NUMBER	OSHA PEL	ACGIH TLV	OTHER		

NO HAZARDOUS INGREDIENTS PRESENT ***

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

MELTING RANGE: N/A

SPECIFIC GRAVITY (H2O=1): 1.

VAPOR DENSITY: HEAVIER THAN AIR

EVAPORATION RATE:

8.345 #/g

WATER SOLUBILITY: LOWER THAN ETHER

HEAVY METAL V.O.C.: 1.06 LB/GL (127 G/L)

ORGANIC V.O.C.: 0.51 LB/GL (61 G/L)

6.170

SOLUBILITY IN WATER:

INSOLUBLE

APPEARANCE AND ODOR:

BLACK

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A

METHOD USED: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: N/A UPPER:

N/A

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG

SPECIAL FIREFIGHTING PROCEDURES

If contained breathing apparatus and protective clothing should be worn when fighting fires involving chemicals. If a large amount is involved evacuate anyone not properly protected.

-1406

MATERIAL SAFETY DATA SHEET

PAGE 2 OF 3

SECTION V - REACTIVITY DATA

STABILITY: STABLE
CONDITIONS TO AVOID

COMPATIBILITY (MATERIALS TO AVOID)

Oxidizing materials can cause reaction.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS

Carbon dioxide, carbon monoxide, various hydrocarbons.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

SECTION VI - HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Inhalation: Irritates respiratory passages and eyes very slightly.
 May cause: headache or nausea

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Contact: Direct contact irritates slightly with redness and swelling.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Contact: Can dry and defat skin causing cracks, irritation and dermatitis.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE

Ingestion: Can cause gastrointestinal irritation.

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute: Eyes: Slight irritation with redness. Skin: No adverse effect. Inhalation: Irritates respiratory passage
 Ingestion: Large amounts may cause digestive discomfort.

Chronic: None known.

MUTAGENICITY: NTP? NO IARC MONOGRAPHS? NO OSHA REGULATED? NO

None known

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE

Asthma, respiratory tract irritation.

EMERGENCY AND FIRST AID PROCEDURES

Eye: Immediately flush with water for 15 minutes. Skin: Wash with soap and water. Inhalation: Move subject to fresh air.
 Ingestion: Give 2 glasses of water to drink. Consult physician. Never give anything by mouth to an unconscious person.

If any symptoms persist, get medical attention.

B-1406

MATERIAL SAFETY DATA SHEET

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Spill area and cover with inert, absorbent material and remove to disposal container. Mop with mild detergents or cleaning solutions. Observe all relevant federal, state and local laws.

WASTE DISPOSAL METHOD

Consult local, state and federal waste regulations before disposing into approved waste landfills. Obey relevant laws.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Handling: No special precautions.
Storage: No special precautions. Use reasonable care.

OTHER PRECAUTIONS

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION

Not required under normal conditions of use.
Wearing this material use in well ventilated area.

VENTILATION

General mechanical ventilation or local exhaust should be suitable to keep vapor concentrations below TLV.

PROTECTIVE GLOVES

Gloves may be worn for protection if skin is sensitive. (latex, neoprene, nitrile rubber)

EYE PROTECTION

Wear chemical safety glasses, goggles or face shields for eye protection.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT

Wear protective clothing whenever possible to prevent skin contact.

WORK/HYGIENIC PRACTICES

Hand washes and safety showers in the workplace are recommended.

SECTION IX - DISCLAIMER

DISCLAIMER

To the best of our knowledge, the information contained herein is accurate, obtained from sources believed by Richard's Paint Manufacturing Co. Inc. to be accurate at the time of preparation. Richard's Paint Manufacturing Co. Inc. does not assume any legal responsibility for use or reliance upon same. Before using any product read its label.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE
 DESCRIPTION: TEAL ESSENCE-830893 **830893**
 PRODUCT CODE IDENTITY: 951GA337
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 03
 LAST REVISED: 12-03-97
 DATE OF ISSUE: 05-26-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY: HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: SEA RAY BOATS INC-P D & E
 546038
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 MERRITT ISLAND FL 32953
 ATTENTION: RANDY SHEPHARD

TRANSPORTATION EMERGENCY TELEPHONE (CHEMTREC): 1-800-424-9300

CCP certifies that its products comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise stated by ingredient in Section II.

*** The percent by weight composition data given in Sections II and ~~XX~~ are NOT SPECIFICATIONS, but are based on 'target' formula values for each ingredient in the product. The data are presented as ranges for low hazard ingredients and single point values for ingredients of regulatory concern. Actual batch concentrations will vary within limits consistent with separately established product specifications. ***

SECTION II INGREDIENTS

1
 CAS# 014807-96-6
 TALC (HYDROUS MAGNESIUM SILICATE)
 PCT BY WT: 5 - 10
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST
 OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST
 LD50, Oral: NOT AVAILABLE
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

2
 CAS# 058611-44-9
 SILICA, AMORPHOUS-HYDROPHOBIC, FUMED
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FR
 OSHA PEL/TWA: 15MG/CU.M. (TOT. DUST); 5MG/CU.M. (RESPIRABLE FR
 LD50, Oral: >5000 MG/KG (RAT)
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

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951GA337

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY
 PCT BY WT: 5 - 10
 EXPOSURE LIMIT:

CAS# PROPRIETARY

ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

4 P86-0103

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY
 PCT BY WT: 30 - 40
 EXPOSURE LIMIT:

CAS# PROPRIETARY

ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

5

CAS# 000100-42-5
 STYRENE MONOMER

PCT BY WT: 32.7010 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:

ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 50 PPM
 OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLO: 5000 PPM/8H (RAT)

6

CAS# 000080-62-6
 METHYL METHACRYLATE

PCT BY WT: 8.7770 VAPOR PRESSURE: 29.000 MMHG @ 68F
 EXPOSURE LIMIT:

ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
 LD50, Oral: 7.9 G/KG (RAT)
 LD50, Dermal: 35.5 G/KG (RABBIT)
 LC50, Inhalation: >12,500 PPM/0.5H (RAT)

 SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.00 F

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 9.41350 LB/GL

Theoretical Specific Gravity, Calculated: 1.1310

Maximum Theoretical VOC, Calculated: 3.9890 lb/gal
 --If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: GREEN

Odor: MODERATE AROMATIC

Odor Threshold: -N/A

pH: -N/A

Freezing Point: -N/A

COOK COMPOSITES AND POLYMERS CO.
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*****951GA337

Water Solubility: -N/A
Coefficient of Water/Oil Distribution: -N/A
Mechanical Impact Explosion: -N/A
Static Electricity Explosion: -N/A

SECTION IV FIRE AND EXPLOSION HAZARD DATA

For Flash Points 73 to 100 deg. F.

OSHA Flammability Classification: Class IC

DOT Flammability Classification: Flammable Liquid

Lowest Closed Cup Flashpoint: 79.00 degrees F

Lower Flammable Limit in Air: Lower- 1.10 % by volume

DOT Shipping Name:

Flash Points 73 to 100 deg. F. = RESIN SOLUTION, 3, UN1866, PG III

EXTINGUISHING MEDIA:

Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

If polymerization takes place in a container, there is possibility of violent rupture of the container. Vapors are uninhibited and may form polymers in vents or flame arrestors of storage tanks resulting in stoppage of vents. Vapors may cause flash fire. Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

**ADDITIONAL TRANSPORTATION INFORMATION:

NMFC: 46030 RESIN COMPOUNDS, LIQUID LTL CLASS 55
-----SECTION V HEALTH HAZARD DATA

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Extended or repeated exposure to concentrations above the recommended exposure limits may cause brain or nervous system depression, with symptoms such as dizziness, headache or nausea and if continued indefinitely, loss of consciousness, liver and kidney damage.

COOK COMPOSITES AND POLYMERS CO.
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Reports have associated repeated and prolonged occupational over-exposure to solvents with permanent brain and nervous system damage.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.
Preexisting eye, skin, liver, kidney and respiratory disorders.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

This material contains no intentionally-added ingredients, covered by the California "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65), unless specifically stated under OTHER HEALTH HAZARDS, by individual chemical.

OTHER HEALTH HAZARDS:

The International Agency for Research on Cancer (IARC) has reclassified styrene as Group 2B "possibly carcinogenic to humans". This new classification is not based on new health data relating to either humans or animals, but on a change in the IARC classification system. The Styrene Information and Research Center does not agree with the reclassification and has published the following statement. "Recently published studies tracing 50,000 workers exposed to high occupational levels of styrene over a period of 45 years showed no association between styrene and cancer, no increase in cancer among styrene workers (as opposed to the average among all workers), and no increase in mortality related to styrene."

An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain. Data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic.

Lung effects have been observed in the mouse following repeated exposure.

Talc, Hydrous Magnesium Silicate, contains crystalline silica at levels greater than 0.1% but less than 1.0%. "IARC Monographs on the Evaluation of Carcinogenic Risks to Humans, Supplement 7, 1987", concludes there is limited evidence for the carcinogenicity of crystalline silica to humans, Class 2A. This classification was based on exposure to free silica dust and should not be relevant to trace amounts of crystalline silica dispersed in paints and plastics.

SECTION VI REACTIVITY DATA

STABILITY: Stable **HAZARDOUS POLYMERIZATION:** May occur.

CONDITIONS TO AVOID:

Elevated temperatures. Improper addition of promoter and/or catalyst. Avoid direct contact of MEKP catalyst with accelerator. If an accelerator such as cobalt drier is to be added, mix this accelerator with base material before adding catalyst.

INCOMPATIBILITY (MATERIALS TO AVOID):

Oxidizers, peroxides, strong acids, aluminum chloride and vinyl polymers

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HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Do not breathe or ingest vapors, spray mist or dust while applying, sanding, grinding, or sawing cured product. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors, mists and dusts are exhausted, unless air monitoring demonstrates vapor, mist and dust levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits in the mixing, application and curing areas; and to remove decomposition product during welding and flame cutting on surfaces coated with this product. In confined areas, use only with forced ventilation adequate to keep vapor concentration below 20% of lower explosion limits. Refer to OSHA Standards 29CFR 1910.94, 1910.107, 1910.108.

NOTE: Heavy solvent vapors should be removed from lower levels of the work area and all ignition sources (nonexplosion-proof motors, etc.) should be eliminated.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings

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designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage.

OTHER PRECAUTIONS:

Containers should be grounded when pouring. Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

ADDITIONAL ENVIRONMENTAL INFORMATION:

The VOC quantity listed in Section III is a maximum loss value. Under typical conditions only half of this amount might be lost to the atmosphere. Loss will vary due to temperature, humidity, film thickness, air movement, spray equipment/techniques, catalyzation, gel and cure rates, etc. If precise loss values are needed, it is suggested that on site testing be conducted.

SECTION XX Sara Title III Information

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR Part 372.

This law requires certain manufacturers to report on annual emissions of specified toxic chemicals and chemical categories. If you are unsure if you must report or require more information, call the EPA Emergency Planning and Community Right-To-Know Hot Line: 800-535-0202 or 202-475-2449.

STYRENE MONOMER	
CAS# 000100-42-5	PCT BY WT: 32.7010
METHYL METHACRYLATE	
CAS# 000080-62-6	PCT BY WT: 8.7770

DISCLAIMER AND LIMITATION OF LIABILITY

The products sold hereunder shall meet Seller's applicable specifications at the time of shipment. Seller's specifications may be subject to change at any time without notice to Buyer. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the date of shipment of the product

COOK COMPOSITES AND POLYMERS CO.
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.....
Prior to the expiration of the shipment's quality life, whichever occurs first. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION OF THE FACE HEREOF.

The Buyer's sole and exclusive remedy against Seller shall be for the replacement of the product or refund of the purchase price in the event that a defective condition of the product should be found to exist by Seller. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER.

The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the product or refund of the purchase price of the product if any defect in material or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as Seller is willing and able to replace the defective products or refund the purchase price.

MATERIAL SAFETY DATA SHEET

95012
025-100
84682A

SECTION I - IDENTIFICATION

PRODUCT NAME: THERMACLEAN 095-0082
DESCRIPTION: WIPE BRIGHT
PRODUCT CODE IDENTITY: 0950082KCB
NFPA HMBIS RATING: HC F2 R0

REVISION: 01
DATE OF MSDS: 12-29-93
DATE PRINTED: 03-08-94

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 919 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116

PREPARED BY:
HAZARD COMMUNICATION DEPT.

CUSTOMER NAME: G L S

INFORMATION TELEPHONE:

1750 N KINGSBURY ST
CHICAGO IL 60614

COMPOSITES: 1-800-821-3550
POLYMERS: 1-800-745-5541

TRANSPORTATION EMERGENCY TELEPHONE (CHEMTREC): 1-800-424-9300

**NOTE: We certify that our product(s) comply with all the provisions of the Toxic Substances Control Act (TSCA), unless otherwise specified. See raw material, in Section II.

SECTION II HAZARDOUS INGREDIENTS

N-PROPOXY PROPANOL

⁰¹
% BY WT: 30 - 40 VAPOR PRESSURE: 1.70 MMHG @ 68F CAS# 001569-01-3

EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

DIPROPYLENE GLYCOL MONOMETHYL ETHER

⁰²
% BY WT: 5 - 10 VAPOR PRESSURE: .01 MMHG @ 68F CAS# 034590-94-9

EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (606 MG/CU.M.) (SKIN)
ACGIH TLV/STEL: 150 PPM (909 MG/CU.M.) (SKIN)
OSHA PEL/TWA: 100 PPM (600 MG/CU.M.) (SKIN)
OSHA PEL/CEILING: 150 PPM (900 MG/CU.M.) (SKIN)
LD50, Oral: 5.4 ML/KG (RAT)
LD50, Dermal: >20 ML/KG (RABBIT)
LC50, Inhalation: NOT AVAILABLE

DIPROPYLENE GLYCOL MONOBUTYL ETHER

⁰³
% BY WT: 1 - 5 VAPOR PRESSURE: .05 MMHG @ 68F CAS# 029911-28-2

EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

SECTION III PHYSICAL DATA

Boiling Range: High- N/A Low- 212.0 F
Vapor Pressure: See Section II
Vapor Density: Heavier Than Air
Evaporation Rate: Slower than Ether
Theoretical Weight per Gallon, Calculated: 7.88
Theoretical Specific Gravity, Calculated: .94
Maximum Theoretical VOC, Calculated: 6.990 lb/gal 28.7%
--If applicable, see Section IX for further VOC information--
Physical State: LIQUID
Appearance: CLEAR
Odor: MILD ALCOHOL
Odor Threshold: N/A
pH: N/A
Freezing Point: N/A
Water Solubility: SOLUBLE
Coefficient of Water/Oil Distribution: N/A
Mechanical Impact Explosion: N/A
Static Electricity Explosion: N/A

SECTION IV FIRE AND EXPLOSION HAZARD DATA

OSHA Flammability Classification: Class IIIA
DOT Flammability Classification: Combustible Liquid
Minimum Observed Closed Cup Flashpoint: 143.0 degrees F
Lower Flammable Limit in Air: Lower- 1.3 % by volume
DOT Shipping Name:
COMBUSTIBLE LIQUID, N.O.S., NA1993, PG III = Bulk / Land, Air, Sea
CHEMICALS, N.O.I. = Non-Bulk / Land
COMBUSTIBLE LIQUID, N.O.S., NA1993, PG III = Non-Bulk / Air, Sea
(Contains n-Propoxypropanol, Dipropylene Glycol Monoethyl Ether)

EXTINGUISHING MEDIA:
Foam, carbon dioxide, dry chemical, water fog.

UNUSUAL FIRE AND EXPLOSION HAZARDS:
Keep containers tightly closed and isolate from heat, electrical equipment, sparks and flame. Never use welding or cutting torch on or near

COOK COMPOSITES AND POLYMERS CO.
MATERIAL SAFETY DATA SHEET

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drum (even empty) because product (even just residue) can ignite explosively.

If applied in confined areas and tanks, use only explosion-proof and properly grounded equipment, spark-proof tools and spark-proof shoes.

SPECIAL FIRE FIGHTING PROCEDURES:

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible auto-ignition or explosion when exposed to extreme heat.

****ADDITIONAL TRANSPORTATION INFORMATION:**

NMFC: 48580/SUB 3 CLEANING COMPOUNDS, LIQUID, NOI LTL CLASS 55

SECTION V HEALTH HAZARD DATA

EFFECTS OF EXCESSIVE OVEREXPOSURE. PRIMARY ROUTES OF ENTRY ARE:

EYE CONTACT:

Irritation. Symptoms are tearing, redness and discomfort.

SKIN CONTACT:

Irritation. Can cause defatting of skin which may lead to dermatitis.

INHALATION:

Irritation to nose and throat. Inhalation overexposure may cause irritation of the upper respiratory system.

INGESTION:

May cause mouth, throat, esophagus and stomach irritation, nausea, vomiting and diarrhea.

MEDICAL CONDITIONS THAT MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

Some preexisting eye diseases may be aggravated by overexposure to this material.

EMERGENCY AND FIRST AID PROCEDURES:

In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If affected by inhalation of vapors or spray mist, remove to fresh air. If swallowed, get medical attention immediately.

This material contains no intentionally-added ingredients, covered by the California "Safe Drinking Water and Toxic Enforcement Act of 1986" (Proposition 65), unless specifically stated under OTHER HEALTH HAZARDS, by individual chemical.

SECTION VI REACTIVITY DATA

STABILITY: Stable **HAZARDOUS POLYMERIZATION:** None under normal conditions.

CONDITIONS TO AVOID:

Elevated temperatures.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong acids and strong oxidizing agents. If this product is not water reducible, avoid water.

0950082KCB

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition or combustion can produce fumes containing organic acids, carbon dioxide and carbon monoxide.

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition (flames, hot surfaces, and electrical, static, or frictional sparks). Avoid breathing vapors. Ventilate area. Contain and remove with inert absorbent and non-sparking tools.

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers. Incinerate in approved facility.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:

Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during application and other use of this product until vapors and mists are exhausted, unless air monitoring demonstrates vapor and mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use. Observe OSHA Standard 29CFR 1910.134.

VENTILATION:

Provide general clean air dilution or local exhaust ventilation in volume and pattern to keep the air contaminant concentration below the lower explosion limit and below current applicable exposure limits. If exposed to vapors, open windows and doors or use other means to ensure fresh air delivery during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory equipment (NIOSH/MSHA TC23C or equivalent), or leave the area.

PROTECTIVE GLOVES:

Use solvent impermeable gloves to avoid contact with product.

EYE PROTECTION:

Do not get in eyes. Use safety eyewear with splash guards or side shields, chemical goggles, face shields.

OTHER PROTECTIVE EQUIPMENT:

Avoid contact with skin. Use protective clothing. Prevent contact with contaminated clothing. Wash contaminated clothing, including shoes, before reuse.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:

Do not store above 100 deg. F. Store large quantities in buildings designed to comply with OSHA 1910.106. Keep away from heat, sparks and flame. Keep containers closed when not in use and upright to prevent leakage. Do not transfer contents to unlabeled bottles or other

containers.

OTHER PRECAUTIONS:

Do not take internally. Wash hands after using and before smoking or eating. Emptied containers may retain hazardous residue and explosive vapors. Keep away from heat, sparks and flames. Do not cut, puncture or weld on or near emptied containers. Follow all hazard precautions given in this data sheet until container is thoroughly cleaned or destroyed. If this product is blended with other components such as thinners, converter, colorants and catalysts prior to use, read all warning labels. Any mixture of components will have hazards of all components. Follow all precautions. If spraying this material, keep spray booths clean. Avoid buildup of spray dust or overspray in booths or ducts.

KEEP OUT OF REACH OF CHILDREN

FOR INDUSTRIAL USE ONLY

SECTION X Sara Title III Information

This product contains no reportable quantities of toxic chemicals subject to the reporting requirements of Section 313 of SARA Title III Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR Part 372.

This law requires certain manufacturers to report on annual emissions of specified toxic chemicals and chemical categories. If you are unsure if you must report or require more information, call the EPA Emergency Planning and Community Right-To-Know Hot Line: 800-535-0202 or 202-479-2449.

DISCLAIMER AND LIMITATION OF LIABILITY

To the best of our knowledge, the information contained herein is accurate. THE WARRANTY DESCRIBED HEREIN SHALL BE IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE. THERE ARE NO WARRANTIES THAT EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. The Buyer's sole and exclusive remedy against seller shall be for the replacement of the products or refund of the purchase price in the event that a defective condition of the products should be found to exist. NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALE, INJURY TO PERSON OR PROPERTY, OR ANY OTHER INCIDENTAL OR CONSEQUENTIAL LOSS) SHALL BE AVAILABLE TO THE BUYER. The sole purpose of this exclusive remedy shall be to provide Buyer with replacement of the products or refund of the purchase price of the products if any defect in materials or workmanship is found to exist. This exclusive remedy shall not be deemed to have failed its essential purpose so long as seller is willing and able to replace the defective products or refund the purchase price. Buyer must give Seller notice in writing of any alleged defect covered by this warranty (together with all identifying details, including the Product Code(s), description and date of purchase) within thirty (30) days of the discovery of such defect. Final determination of the suitability of the material for the use contemplated, the manner of use and whether the suggested use infringes any patents is the sole responsibility of the Buyer.

FEB 10 1995



CORPORATION

JANUARY 1995

SEA RAY BOATS FLORIDA CORP
ATTN: KERRY MCKINNEY, PURCH. SECRETARY
100 SEA RAY DRIVE
MERRITT ISLAND FL 32953

OUR VALUED CUSTOMER:

IN KEEPING WITH THE FEDERAL AND STATE 'RIGHT TO KNOW' LAWS WE ARE ENCLOSING AN MSDS FOR THE PRODUCTS LISTED BELOW. THE INFORMATION CONTAINED IN THE MSDS IS IMPORTANT TO YOU AND TO YOUR EMPLOYEES.

95027 DX. 095-0082

THE OSHA HAZARD COMMUNICATION STANDARD STATES THAT EMPLOYEES MUST BE TRAINED IN HOW TO USE AN MSDS AS A SOURCE FOR HAZARD INFORMATION. ALL RELEVANT SHEETS MUST BE READILY ACCESSIBLE TO EMPLOYEES DURING EACH WORKSHIFT WHEN THEY ARE IN THEIR WORK AREAS.

IF YOU HAVE ANY QUESTIONS CONCERNING THE INFORMATION CONTAINED IN THE MSDS, PLEASE CONTACT ME AS SOON AS POSSIBLE. WE THANK YOU FOR YOUR VALUED BUSINESS AND WE WANT TO HELP YOU IN EVERY WAY THAT WE CAN.

BILL RUDERSDORF
SAFETY SPECIALIST
HEALTH, SAFETY & ENVIRONMENT

008/088/60485

CORPORATE OFFICES

1750 N Kingsbury Street
Chicago IL 60614-4891
312 664-3500
312 664-1301 Fax

MATERIAL SAFETY DATA SHEET

COATINGS AND RESINS GROUP

SECTION VII - HEALTH HAZARD DATA

015-120

EFFECTS OF OVEREXPOSURE FROM:

EABZAZ

SECTION I - PRODUCT INFORMATION

MANUFACTURER'S NAME: PPG INDUSTRIES, INC.
 PRODUCT CODE/IDENTITY: DTL16 (020590D)
 CUSTOMER PART#/NAME:
 PRODUCT TRADE NAME: ALL PURPOSE THINNER
 CHEMICAL FAMILY: SOLVENT BLEND

SHIPPING INFORMATION
 US-DOT-SHP.NAME/HAZ CLASS: PAINT RELATED MATERIAL-FLAMMABLE
 LIQUID
 UN NUMBER: UN1263

IN-PLANT HAZARD RATINGS
 HEALTH= 2
 FLAMMABILITY= 3
 REACTIVITY= 0

0=MINIMAL 1=SLIGHT 2=MODERATE 3=SERIOUS 4=SEVERE
 *CONTAINS INGREDIENT(S) WHICH MAY CAUSE (LONG-TERM) HEALTH EFFECTS

PRODUCT SAFETY INFO: 4325 ROSANKA DR. P.O. BOX 8
 ALLISON PARK, PA. 15101
 (412) 492-6666
 1-800-441-6885
 PGM. PAINTS INFO. OR MSDS: 1-800-243-2580, IN OH. (216) 871-0080
 AUTO REFINISH INFO. OR MSDS: (304) 843-1300
 EMERGENCY MEDICAL INFO: (304) 843-1300
 EMERGENCY SPILL INFO: (304) 843-1300
 DATE OF MSDS PREPARATION: 7/27/90

THIS MATERIAL SAFETY DATA SHEET HAS BEEN PREPARED IN ACCORDANCE WITH THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200), THE SUPPLIER NOTIFICATION REQUIREMENTS OF RCRA TITLE III, SECTION 315, AND OTHER APPLICABLE RIGHT-TO-KNOW REGULATIONS. ABBREVIATIONS AND OTHER DESIGNATIONS USED ON THIS MATERIAL SAFETY DATA SHEET INCLUDE THE FOLLOWING:

UI = UNKNOWN INFORMATION; N/A = NOT APPLICABLE; NOT ESTAB. = NOT ESTABLISHED; CERT. LTR. = CHEMICAL O.K. ON TSCA INVENTORY; CAS NO. NOT AVAILABLE

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

(FORMULA VALUES, NOT SALES SPECIFICATIONS)

BOILING RANGE: 50 - 150 DEG. C SOLUBILITY IN WATER: 40.4%
 VAPOR PRESSURE: 108.8mmHg WT/GAL (LBS): 6.07 (U.S.)
 VAPOR DENSITY: HEAVIER THAN AIR pH: UI
 % VOL VOLUME: 100.0 % SOLID BY WEIGHT: .01 99.9
 LVAP RATE (lb/ft²/hr @ 100°F): 591 SPECIFIC GRAVITY: .80
 COOR/APPEARANCE: NON-VISCOUS LIQUID WITH AN ODOR CHARACTERISTIC OF THE SOLVENTS LISTED IN SECTION I.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

US-DOT CATEGORY: EXTREMELY FLAMMABLE
 FLASHPOINT: 11 DEG. F PMCC
 FLAMMABLE LIMITS: LEL 1.6 UEL UI

EXTINGUISHING MEDIA:

USE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) CLASS B EXTINGUISHERS (CARBON DIOXIDE, DRY CHEMICAL, OR UNIVERSAL AQUEOUS FILM FORMING FOAM) DESIGNED TO EXTINGUISH NFPA CLASS B FLAMMABLE LIQUID FIRES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS, AND OPEN FLAMES. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. DO NOT APPLY ON HOT SURFACES. TOXIC GASES MAY FORM WHEN PRODUCT IS CONTACTED BY FLAME OR HOT SURFACES.

SPECIAL FIRE FIGHTING PROCEDURES:

WATER SPRAY MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. FIRE-FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS.

SECTION V - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: NOT EXPECTED TO OCCUR

INCOMPATIBILITY (MATERIALS AND CONDITIONS TO AVOID):

AVOID CONTACT WITH STRONG ALKALIES, STRONG MINERAL ACIDS, OR STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS WHEN HEATED, INCLUDING: Carbon Monoxide.

SECTION VI - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

PROVIDE MAXIMUM VENTILATION. ONLY PERSONNEL EQUIPPED WITH PROPER RESPIRATORY AND SKIN AND EYE PROTECTION SHOULD BE PERMITTED IN THE AREA. REMOVE ALL SOURCES OF IGNITION. TAKE UP SPILLED MATERIAL WITH SAWDUST, VERMICULITE, OR OTHER ABSORBENT MATERIAL AND PLACE INTO CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD:

WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, PROVINCIAL, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS SHOULD BE RECYCLED OR DISPOSED OF THROUGH AN APPROVED WASTE MANAGEMENT FACILITY.

EFFECTS OF OVEREXPOSURE FROM:

INGESTION:

-HARMFUL OR FATAL IF SWALLOWED.

EYE CONTACT:

-CAUSES SEVERE EYE IRRITATION.

SKIN CONTACT:

-MAY CAUSE MODERATE SKIN IRRITATION. -MAY BE ABSORBED THROUGH THE SKIN.

INHALATION:

-VAPOR AND SPRAY MIST MAY BE HARMFUL IF INHALED. -VAPOR IRRITATES EYES, NOSE, AND THROAT. -REPEATED EXPOSURE TO HIGH VAPOR CONCENTRATIONS MAY CAUSE IRRITATION OF THE RESPIRATORY SYSTEM AND PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. -INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALE THE CONTENTS CAN BE HARMFUL OR FATAL.

CHRONIC OVEREXPOSURE:

AVOID LONG TERM AND REPEATED CONTACT.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

-EYE WATERING, HEADACHES, NAUSEA, DIZZINESS, AND LOSS OF COORDINATION ARE INDICATIONS THAT SOLVENT LEVELS ARE TOO HIGH. -REDNESS, ITCHING, BURNING SENSATION AND VISUAL DISTURBANCES MAY INDICATE EXCESSIVE EYE CONTACT. -DRYNESS, ITCHING, CRACKING, BURNING, REDNESS, AND SWELLING ARE CONDITIONS ASSOCIATED WITH EXCESSIVE SKIN CONTACT.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

NOT APPLICABLE

SECTION VIII - FIRST AID PROCEDURES

INGESTION:

IF SWALLOWED, DO NOT INDUCE VOMITING.

EYE CONTACT:

IN CASE OF EYE CONTACT, FLUSH EYES IMMEDIATELY WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES.

SKIN CONTACT:

IN CASE OF SKIN CONTACT, FLUSH IMMEDIATELY WITH PLENTY OF WATER FOLLOWED BY WASHING WITH SOAP AND WATER.

INHALATION:

IF AFFECTED BY INHALATION OF VAPOR OR SPRAY MIST, REMOVE TO FRESH AIR. APPLY ARTIFICIAL RESPIRATION AND OTHER SUPPORTIVE MEASURES AS REQUIRED.

OTHER:

IF ANY OF THE FOLLOWING OCCUR DURING OR FOLLOWING USE OF THIS PRODUCT, CONTACT A POISON CONTROL CENTER, EMERGENCY ROOM OR PHYSICIAN IMMEDIATELY; HAVE MATERIAL SAFETY DATA SHEET INFORMATION AVAILABLE. *INGESTION *EXCESSIVE EXPOSURE TO A CORROSIVE MATERIAL. *PERSISTENT SKIN/ EYE IRRITATION OR BREATHING DIFFICULTIES.

SECTION IX - PROTECTION INFORMATION**PERSONAL PROTECTIVE EQUIPMENT FOR:**

EYE PROTECTION:

WEAR CHEMICAL-TYPE SPLASH GOGGLES OR FULL FACE SHIELD.

SKIN PROTECTION:

WEAR PROTECTIVE CLOTHING, INCLUDING IMPERMEABLE APRON AND GLOVES CONSTRUCTED OF: NITRILE RUBBER, NEOPRENE RUBBER OR POLYVINYL ALCOHOL.

RESPIRATORY PROTECTION:

OVEREXPOSURE TO VAPORS MAY BE PREVENTED BY ENSURING VENTILATION CONTROLS. VAPOR EXHAUST OR FRESH AIR ENTRY, NIOSH/MSHA-APPROVED (TC-20C) PAINT SPRAY OR AIR SUPPLIED (TC-19C) RESPIRATORS MAY ALSO REDUCE EXPOSURE. READ RESPIRATOR MANUFACTURER'S INSTRUCTIONS AND LITERATURE CAREFULLY TO DETERMINE THE TYPE OF AIRBORNE CONTAMINANTS AGAINST WHICH THE RESPIRATOR IS EFFECTIVE AND HOW IT IS TO BE PROPERLY FITTED.

OTHER EQUIPMENT:

CLEAN OR DISCARD CONTAMINATED CLOTHING AND SHOES.

VENTILATION REQUIREMENTS:

PROVIDE GENERAL DILUTION OR LOCAL EXHAUST VENTILATION IN VOLUME AND PATTERN TO KEEP THE CONCENTRATION OF INGREDIENTS IN SECTION II BELOW THE LOWEST SUGGESTED EXPOSURE LIMIT, AND LEL IN SECTION IV BELOW STATED LIMIT.

SECTION X - SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

DO NOT STORE ABOVE 120 DEGREE F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED AND PROTECTED FOR STORAGE OF NFPA CLASS B FLAMMABLE LIQUIDS.

OTHER PRECAUTIONS:

IF THIS MATERIAL IS PART OF A MULTIPLE COMPONENT COATING SYSTEM, READ THE MATERIAL SAFETY DATA SHEET(S) FOR THE OTHER COMPONENT OR COMPONENTS BEFORE BLENDING AS THE RESULTING MIXTURE MAY HAVE THE HAZARDS OF ALL OF ITS PARTS. CONTAINERS SHOULD BE GROUNDING WHEN POURING. AVOID FREE FALL OF LIQUID IN EXCESS OF A FEW INCHES.

00DTL16/11/1727

CONTINUATION OF MANUFACTURER'S CODE: 0TL16

DATE OF PREP: 7/27/90

PAGE 2

SECTION II - INGREDIENTS AND REGULATORY INFORMATION

INGREDIENTS	CAS NUMBER	% WEIGHT	...SARA TITLE III & CERCLA CLASSIFICATIONS....					
			HS (102)	ENS (302)	TC+ (313)	RQ (LBS)	TPQ (LBS)	SARA 311/312 AC CH FL PR RE
ACETONE	67-64-1	25-30 ✓	Y	N	Y	5000	N/A	Y N Y N N
ISOPROPYL ALCOHOL, ANHYDROUS	67-63-0	5-10 ✓	N	N	Y	N/A	N/A	Y N Y N N
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	5-10 ✓	N	N	N	N/A	N/A	Y N Y N N
TOLUENE	108-88-3	20-25 ✓	Y	N	Y	1000	N/A	Y N Y N N
LIGHT ALIPHATIC SOLVENT NAPHTHA	64742-09-8	15-20 ✓	N	N	N	N/A	N/A	Y N Y N N
XYLENE	1330-20-7	15-20 ✓	Y	N	Y	1000	N/A	Y N Y N N

*** OCCUPATIONAL EXPOSURE LIMITS HAVE BEEN ESTABLISHED FOR THE FOLLOWING MATERIALS ***

INGREDIENTS	ACGIH		OSHA		PPG-IPEL	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL	IPEL-TWA	IPEL-STEL
ACETONE	750 ppm	1,000ppm	1,000ppm	NOT ESTAB	750 ppm	1,000ppm
ISOPROPYL ALCOHOL, ANHYDROUS	400 ppm	500 ppm	400 ppm	NOT ESTAB	400 ppm	500 ppm
TOLUENE	100 ppm	150 ppm	200 ppm	300 ppm	100 ppm	150 ppm
XYLENE	100 ppm	150 ppm	100 ppm	NOT ESTAB	100 ppm	150 ppm

*** SARA 311/312 CATEGORIES FOR THIS PRODUCT ***
 ACUTE=Y CHRONIC=N FLAM=Y PRESS=N REAC=N

*** PRODUCT STATUS RELATIVE TO THE US EPA TOXIC SUBSTANCES CONTROL ACT ***
 ALL CHEMICAL SUBSTANCES IN THIS PRODUCT COMPLY WITH ALL APPLICABLE RULES OR ORDERS UNDER THE ENVIRONMENTAL PROTECTION AGENCY'S TOXIC SUBSTANCES CONTROL ACT.

*** FOOTNOTES FOR SECTION II ***

LD50 ORAL (RAT), (g/kg) DERM= LD50 DERMAL (RABBIT), (g/kg) INHL= LC50 INHALATION (RAT), (mg/L)
 INGREDIENTS IN THE TC COLUMN ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III. SEE 40 CFR PART 372.

OLE SARGE PAINT & EQUIPMENT CO. INC.

SPECIALIZING IN AUTOMOTIVE PAINTS

809 N. COCOA BLVD. COCOA, FL 32922

(407) 636-2634 FAX: (407) 636-3261

TOTAL # OF PAGES INCL. COVER SHEET (3)

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COMPANY NAME

SEA RAY M I

ATTENTION

DAVID CLEVENGER

FAX #

453-2006

COMMENTS

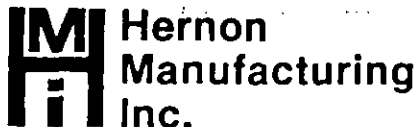
MSDS INFO FOR DELIVERY MADE
PREVIOUS DAY.

THANKS

DAVE BURTON

* Requested
By Shawn E. Redwood
To be used on Dark
Paints during the Summer
Month (Hot/Humid) because it
Helps the paints DRY Quicker
DEE

P.P.G
DTL-16
Loq. Thinner



121 TECH DRIVE
SANFORD, FL 32771
Tel:(407) 322-4000/Fax:(407) 321-9700

MATERIAL SAFETY DATA SHEET

10-30-
86314Z

Identity (As Used on Label and List)

Instantbond 121 1oz. n/#

SECTION I

Manufacturer's Name

HERNON MANUFACTURING, INC.

Emergency Telephone Number

(407)322-4000

Address (Number, Street, City, State and Zip)

121 Tech Drive
Sanford, FL, 32771

Telephone Number for Information

(407)322-4000

Date Prepared Feb. 1992

Signature of Preparer

SECTION II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name)	OSHA PEL	ACGIH TLV	Other Limits	% Optional
Ethyl Cyanoacrylate	N/A	2ppm	N/A	90+
Poly (Methyl methacrylate)*				<10%
Hydroquinone				<0.5%

*PURE POLY (METHYL METHACRYLATE) HAS BEEN SHOWN TO CAUSE TUMORS IN EXPERIMENTAL ANIMALS WHEN IMPLANTED BENEATH THE SKIN. IN LIGHT OF THE LOW CONCENTRATION OF THIS COMPONENT IN THE PRODUCT, IT IS OUR BEST TECHNICAL JUDGEMENT THAT NORMAL USE OF THIS PRODUCT POSES NO SUCH HAZARD. WARNINGS PRESENT TO COMPLY WITH OSHA REGULATIONS.

SECTION III - Physical/Chemical Characteristics

Boiling Point

140°F at 3mmHg

Specific Gravity (H2O=1)

1.050

Vapor Pressure (mm Hg.)

0.3 at 68°F

Melting Point

N/A

Vapor Density (AIR = 1)

>1

Evaporation Rate

(Butyl Acetate = 1) N/A

Solubility in Water

Polymerized by Water

Appearance and Odor

Transparent liquid - irritating odor.

Sherry
12/19/95
VOC 86%
or 937.48/l

SECTION IV - Fire and Explosion Hazard Data

Flash Point (Method Used)

170°F (Seta flash closed cup)

Flammable Limits

N/A

LEL

UEL

Extinguishing Media

CO2, Foam, Dry chemical

Special Fire Fighting Procedures

Fire fighters should be equipped with self contained breathing apparatus to protect against potentially toxic fume

Unusual Fire and Explosion Procedures

None

SECTION V - Reactivity Data

Stability

Unstable

Conditions to Avoid

Stable X

Incompatibility (Materials to Avoid)

Water, alkaline materials, peroxides

Hazardous Decomposition or Byproducts

Decompose upon heating to release toxic fume of nitrogen oxide, carbon monoxide

Hazardous May Occur

Conditions to Avoid: Contamination of the adhesive with alkaline materials.

Polymerization

X

peroxides, water can result in rapid polymerization.

May Not Occur

SECTION VI - Health Hazard Data

Route(s) of Entry: Inhalation? Skin? Ingestion?

Health Hazards (Acute and Chronic)

Eye: Will bond eyelids together Skin: on contact there is immediate bonding of skin Inhalation: vapor may be irritating to respiratory tract

Carcinogenicity: NTP? IARC Monographs? N/A OSHA Regulated N/A

Signs and Symptoms of Exposure

Vapor is irritating to eyes and above TLV prolonged and repeated over exposure to vapor may produce allergic reaction in sensitive individuals

Medical Conditions Generally Aggravated by Exposure

None known

Emergency and First Aid Procedures

EYE: Flush with large amounts of water while holding eyelids open. Get medical attention immediately. Cured adhesive will not bond well to surface of eye, but corneal damage from abrasion may result. Do not wear contact lenses when working with this material. SKIN: No attempt should be made to remove material from skin or to remove contaminated clothing, as the bonded skin can be easily torn. Wash with large volumes of soap and water while flexing bonded skin parts. This procedure will slowly release bonded areas. DO NOT mechanically remove cured adhesive or attempt to pull skin apart. INHALATION: Remove to fresh air. If breathing is difficult, give oxygen. If breathing has stopped, give artificial respiration. Get medical attention. INGESTION: Immediate bonding of mouth will occur. Get medical attention.

SECTION VII - Precautions for Safe Handling Use

Steps to be Taken in Case Material is Released or Spilled

Flood with water to polymerize, soak up with an inert adsorbent material

Waste Disposal Method: Polymerize as above, incinerate in accordance with EPA and local regulations.

Precautions to Be Taken in Handling and Storing: Store below 75°F to maximize shelf life. Avoid contact with eye and skin; avoid breathing of vapors

Other Precautions: N/A

SECTION VIII - Control Measures

Respiratory Protection (Specify Type)

Positive down draft exhaust ventilation should be provided to maintain vapor concentration below TLV

Ventilation: Local Exhaust Yes Special
Mechanical (General) Other

Protective Gloves

Eye Protection

Polyethylene gloves recommended - do not use cotton gloves Safety glasses are recommended

Other Protective Clothing or Equipment: No special clothing required for low volume activity

Work/Hygienic Practices: Wash hands before eating, drinking, smoking or using toilet facilities.

MATERIAL SAFETY DATA SHEET

Page 1 of 4

10-30

863159

408

I. PRODUCT IDENTIFICATION

Product Name: EF Series Primer 48
Product Type: Activator

II. COMPOSITION

Ingredients: %
Isopropyl Alcohol 96-99
N,N-Dialkyltoluidine 1-3
Hydroquinone 0.01-0.1

III. CHEMICAL AND PHYSICAL PROPERTIES

Vapor Pressure: 33 mm at 70 F
Vapor Density: 2.1
Solubility in Water: 95-100%
Specific Gravity: 0.79
Boiling point: 180 F
Volatile Organic Compound (EPA Method 24) 99.9%; 789 grams/liter
Evaporation Rate: 7.7
(Ether = 1)
pH: Does not apply
Appearance: Clear liquid
Odor: Alcoholic

IV. FLAMMABILITY AND EXPLOSIVE PROPERTIES

Flash point: 53 F Method: TCC
Estimated NFPA Code:
Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0
Specific Hazard: Does not apply
Estimated HMIS Code:
Health Hazard: 2
Flammability Hazard: 3
Reactivity Hazard: 0
Personal Protection: See Section X
Explosive Limits:
LEL: 2.0% Isopropyl alcohol
1.2% Dialkyl toluidine
UEL: 12.7% isopropyl alcohol at 200 F
7% Dialkyltoluidine

Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical
Hazardous Products Formed
by Fire/Thermal Decomp Oxides of Carbon
Unusual Fire or
Explosion Hazards: Distant ignition sources may ignite vapors

traveling with moving air currents.
 Compressed Gases: None
 Pressure at Room Temp. Does not apply

V. SPILL OR LEAK AND DISPOSAL PROCEDURES

Steps to be taken in case
 of spill or leak: Remove sources of ignition.
 Allow to evaporate with good
 ventilation.

Recommended methods
 of disposal: Incinerate following EPA and local
 regulations.

VI. STORAGE AND HANDLING PROCEDURES

Storage: Store below 110 F away from sources of
 ignition.

Handling: Avoid prolonged breathing of vapor. Keep away
 from eyes. Avoid prolonged skin contact.

VII. SHIPPING REGULATIONS

DOT (49 CFR 172)
 Proper shipping Name Ground: Consumer Commodity (Not more than one
 quart); Isopropanol solution (more than one
 quart)
 Air: Consumer Commodity (Not more
 than one quart) Isopropanol Solution
 (more than one quart)

Hazard Class or
 Division Ground: ORM-D (Not more than 1 quart)
 Flammable liquid (more than 1
 quart)
 Air: ORM-D-Air (not more than 1 quart)
 Flammable liquid (more than 1 quart)

Identification Number None (not more than 1 quart)
 UN 1219 (More than 1 quart)

IATA
 Proper Shipping Name Isopropanol solution
 Class or Division Class 3, Packing Group II
 UN or ID number UN 1219

IMO
 Substance Not available
 Marine Pollutant
 Status Not available
 Class Not available
 Subsidiary Risk Label Not available
 IMDG Code Page Not available
 UN Number Not available

VIII. REACTIVITY DATA

Stability: Stable
 Hazardous Polymerization: Will not occur
 Hazardous Decomposition Products (non-thermal): None
 Incompatibility: Strong oxidizing agents, aluminum, nitric acid, sulfuric acid, amines, ammonia, halogen acids and chlorides, aldehydes

IX. EMERGENCY TREATMENT PROCEDURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
 Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.
 Skin contact: Wash with soap and water.
 Eye contact: Flush at least 15 minutes with water. Obtain medical attention.

X. PERSONAL PROTECTION

Eyes: Safety glasses or goggles.
 Skin: Rubber or plastic gloves.
 Ventilation: Provide adequate local ventilation to maintain vapor concentration below TLV

XI. HEALTH HAZARD DATA

Toxicity: Eye and skin irritant. Also see "Effects of overexposure."
 Primary Routes of Entry: Inhalation, ingestion, skin and eye
 Signs and Symptoms of Exposure: Headache, nausea, dizziness, vomiting, drowsiness, irritation of respiratory tract, loss of consciousness, pulmonary edema, temporary corneal damage, gastrointestinal irritation, central nervous system depression.

Existing conditions Aggravated by exposure: Isopropyl alcohol: Skin disorders, eye problems, respiratory disorder

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
Isopropyl Alcohol	400 ppm TWA 983 mg/m3	400 ppm TWA 980 mg/m3	None
Hydroquinone	2 mg/m3 TWA	2 mg/m3 TWA	2 mg/m3 TWA 4 mg/m3 STEL

Exposure Limits (Stel) Ingredients

Isopropyl Alcohol 500 ppm 500 ppm
 1230 mg/m3 1225 mg/m3
Literature Referenced - Target Organ and other Health Effects

Ingredients

	GAS IRR	NER	REP	Carcinogen		
				NTP	IARC	OSHA
Isopropyl Alcohol				No	N/A	No
N,N Dialkyltoulidine	No Data			No	No	No
Hydroquinone	No Data			No	N/A	No

XII. PREPARATION INFORMATION

Company: HERNON MANUFACTURING, INC.
 121 Tech Drive
 Sanford, FL 32771
Prepared by: Josef Arnon
Title: Technical Director
Phone: 407-322-4000
Revision: March 1993

15-30
868885

MAY 02 1994 01:50PM KOPCOAT MARINE GROUP
DATA KOP-COAT, INC.
SHEET

OUTSIDE U.S.A. : 412-227-1128
PRODUCT INFORMATION: 800-221-4466 (EAST)
: 800-932-2239 (WEST)

PETTIT PAINT
36 PINE STREET
ROCKAWAY, NJ 07866

CHEMTEC ASSISTANCE 800-424-9300
CANUTEC: 613-996-5566

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: 1255 Aqua-Clean Waterbased Antifouling Paint Blue

COMMODITY NUMBER:

H - 1

SYNONYM:

F - Z

R - O

P - B

PRODUCT USE: Paint/Coating

CHEMICAL FAMILY: Waterbased Antifoulant

FORMULA: Mixture

CAS NUMBER: None

DOT INFORMATION

APPLICABLE REGULATION : 49 CFR 171 - 179

U.S. POSTAL REGULATIONS : Not Shippable

DOT PROPER SHIPPING NAME: Paint

DOT HAZARD CLASS: Combustible liquid

LABEL: Combustible liquid

UN/NA NUMBER: UN 1263

LIMITED QUANTITY: Yes

SECTION II - HEALTH/SAFETY ALERT

CAUTION

COMBUSTIBLE LIQUID AND VAPOR

HARMFUL IF INHALED OR SWALLOWED

MAY CAUSE IRRITATION TO SKIN AND EYES

MAY CAUSE ALLERGIC SKIN REACTION

AVOID PROLONGED OR REPEATED BREATHING OF VAPOR

USE WITH ADEQUATE VENTILATION

AVOID PROLONGED AND/OR REPEATED CONTACT

OBSERVE GOOD HYGIENE AND SAFETY PRACTICES WHEN HANDLING THIS PRODUCT

DO NOT USE THIS PRODUCT UNTIL MSDS HAS BEEN READ AND UNDERSTOOD

SECTION III - HEALTH HAZARD INFORMATION

Eye: Direct contact with liquid or vapor may cause irritation.

characterized by redness, cracking, blistering, irritation and dermatitis.

INHALATION: Inhalation of high concentrations of vapors may cause respiratory tract irritation and central nervous system depression characterized by headache, weakness, dizziness, incoordination and possible collapse. Prolonged and/or repeated inhalation of high concentrations of metal fumes may cause metal fume fever characterized by headache, dizziness, metallic taste in mouth and general flu-like symptoms.

INGESTION: May cause gastrointestinal disturbances such as nausea, vomiting, diarrhea and effects similar to those described under **INHALATION**. Aspiration of this product into the lung may cause chemical pneumonitis which can be fatal.

OTHER: See SECTION XII - COMMENTS for additional information on health effects.

REVISION DATE: 10/93

CODE NUMBER:

SPECIFICATION SHEET NUMBER:

REPLACES SHEET: NA

COMMODITY NUMBER:

SUPPLIER INFORMATION: Same as manufacturer.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with large amounts of water for 15 minutes. Seek medical aid.

SKIN CONTACT: Wash thoroughly with soap and water. If redness, itching, burning or other symptoms develop or persist, seek medical aid. Wash contaminated clothing before reuse.

INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.

INGESTION: Do not induce vomiting. Give 1 glass of milk or 1 to 2 oz (30 to 60g) of activated charcoal in water to victim as tolerated. Seek medical aid. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN: There is no specific antidote for effects from overexposure to this material. Treatment should be directed at the control of symptoms and the clinical condition.

SECTION V - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH PT. & METHOD: 140F/60C AUTOIGNITION TEMP: No information found

FLAMMABLE LIMITS (% BY VOLUME/AIR):
LOWER: No information found UPPER: No information found

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical or foam. Water may be ineffective. Use carbon dioxide, dry chemical, water spray, alcohol or universal type foams as per manufacturer's recommendations.

FIRE-FIGHTING PROCEDURES: Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel.

FIRE AND EXPLOSION HAZARDS: Heat/fire conditions: vapors form flammable/explosive mixtures in air. Vapors heavy, may travel (ground, pit, sewer) to ignition source-flash. Open/closed containers may contain flammable/explosive vapors. Closed containers may explode when exposed to extreme heat (fire). Under fire conditions, may emit irritant/toxic gas and/or fumes.

SENSITIVITY TO MECHANICAL IMPACT: No information found

SENSITIVITY TO STATIC DISCHARGE: No information found

SECTION VI - SPILL, LEAK AND DISPOSAL INFORMATION

SPILL OR LEAK PROCEDURES (PRODUCT): Stop spill/leak if no risk involved. Avoid breathing vapors. Eliminate ALL sources of ignition. Ventilate area. Avoid contact with hot liquid and fumes. Take up carefully to avoid heat and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials. This product released into the environment must be reported to the National Response Center (1-800-424-8802). When this product is spilled or leaked, the reportable quantity is 100 lbs. or more.

WASTE DISPOSAL: This product is a US EPA defined ignitable hazardous waste. Dispose of as an ignitable hazardous waste in accordance with local, state and

federal regulations.

SECTION VII - RECOMMENDED EXPOSURE LIMIT/HAZARDOUS INGREDIENTS

EXPOSURE LIMIT (PRODUCT):

(+)NIOSH Occupational Carcinogen
**total dust

HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WT.	EXPOSURE LIMIT (PPM;MG/M3)
Ethylene Glycol (vapor & mist)	107-21-1	1-5	ACGIH-TLV 30C 127C OSHA-CEILING 50 125
Titanium Dioxide(+)	13463-67-7	1-5	ACGIH-TLV - 10** OSHA-TWA - 10**
Ethylene Glycol Monobutyl Ether (skin)	111-76-2	1-5	ACGIH-TLV 25 121 OSHA-TWA 25 120 NIOSH 25 120
Copper (as Cu dusts & mists)	7440-50-8	55-60	ACGIH-TLV - 1 OSHA-TWA - 1 NIOSH - 1
(as Cu fume)			ACGIH-TLV - 0.2 OSHA-TWA - 0.1 NIOSH - 0.1

----- SARA TITLE III SECTION 313 CHEMICALS -----
(SEE SECTION VII FOR CAS NUMBERS AND PERCENTAGES)

Ethylene Glycol

SECTION VIII - PERSONAL PROTECTION INFORMATION

EYE PROTECTION: Industrial safety glasses, minimum. When needed for 29 CFR 1910.133 (work area conditions), use side shields, goggles and/or faceshield. Chemical goggles; face shield (if splashing is possible).

SKIN PROTECTION: As required, industrial resistant flexible-type gloves (heavy duty neoprene or equal - see Section XII).

Wear industrial-type work clothing and safety footwear.

Depending on working conditions, i.e., contact potential, wear resistant protective garments such as head/neck cover, aprons, jackets, pants, coveralls, boots, etc.

RESPIRATORY PROTECTION: If ventilation does not maintain inhalation exposures below PEL (TLV), use MSHA/NIOSH approved units as per current 29 CFR 1910.134, Instructions/Warnings and NIOSH-Respirator Decision Logic-Pub.#87.108. If within OSHA protection factor, air purifying OV/filter units OK.

VENTILATION: Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and areas below flammable vapor concentrations. Local exhaust is necessary for use in enclosed or confined spaces. See OSHA requirements/NIOSH publication 87-113 "...Confined Spaces".

SECTION IX - PERSONAL HANDLING INSTRUCTIONS

HANDLING: Avoid prolonged or repeated contact with skin or eyes. Avoid prolonged or repeated breathing of vapors, mists or fumes. Handle and use in

accordance with OSHA 29CFR1910.106/local codes. Spray paint in accordance with OSHA 29 CFR 1910.107. Observe good personal hygiene practices and recommended procedures.

STORAGE: Store in areas/buildings designed to comply with OSHA 1910.106. Keep in a closed, labeled container within a cool (well shaded), dry, ventilated area. Protect from physical damage. Keep containers closed when material is not in use. Maintain good housekeeping.

OTHER: Ground and bond drums. Do not use pressure to empty drums. Do not wear contaminated clothing. Discard contaminated footwear. Keep away from heat and open flame. See SECTION XII (COMMENTS) for additional information. Do not use without fully understanding Section X - "Reactivity Data".

SECTION X - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: None

INCOMPATIBILITY: Avoid oxidizing agents, heat, sparks and open flames

HAZARDOUS REACTIONS/DECOMPOSITION/COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide upon thermal decomposition

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None

SECTION XI - PHYSICAL DATA

BOILING POINT: No information found

SPEC. GRAV. OR WT/GAL: 19.9 lbs/gal

MELTING POINT: Not applicable

% VOLATILE BY VOL: No information found

VAPOR PRESSURE: No information found

EVAPORATION RATE(ETHER=1): No information found

VAPOR DENSITY(AIR=1): 1

VISCOSITY: No information found

SOLUBILITY

(WATER): negligible

pH: Not applicable

VOC: No information found

COEFFICIENT OF WATER/OIL DISTRIBUTION: No information found

APPEARANCE/ODOR: Blue viscous liquid with a typical solvent odor.

SECTION XII - COMMENTS

Individuals with pre-existing disease in or a history of ailments involving the skin, eye, respiratory tract, liver, kidney, central nervous system are at a greater than normal risk of developing adverse effects when exposed to this material.

Overexposure to Ethylene Glycol Monobutyl Ether has apparently been found to cause the following effects in laboratory animals: anemia, liver abnormalities, kidney damage, lung damage, blood abnormalities.

EMPTY CONTAINERS may retain product residue including flammable or explosive vapors. Do not cut, drill, grind or weld on or near full, partially full or empty product containers.

No known ingredients which occur at greater than 0.1% are listed as a carcinogen in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA 29 CFR 1910.1001-1047 subpart Z Toxic and Hazardous Substances (Specifically Regulated Substances).

SKIN PROTECTION (protective material): Permeation/degradation values of chemical mixtures cannot be predicted from pure components or chemical classes.

Thus, these materials are normally best estimates based on available pure component data. A significant difference in chemical breakthrough time has been reported for generically similar gloves from different manufacturers (AIHA J., 48, 941-947 1987).

Do not use until manufacturer's precautions have been read/understood. Wash exposed areas promptly and thoroughly after skin contact from working with this product and before eating, drinking, using tobacco products or rest rooms.

Do not wear contact lens without proper eye protection when using this product.

Prepared By: Occupational Health and Product Safety Department - C.A.Hope

NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Kop-Coat, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

#QT



AQUA-CLEAN WATER BASED ANTIFOULING

868885

TB 117

- WATER BASED TECHNOLOGY FOR EASY APPLICATION AND CLEANUP
- HIGH LOADING OF CUPROUS OXIDE FOR LONG TERM PROTECTION, EVEN IN HIGHLY FOULING WATERS
- COMPLIES WITH ALL AIR POLLUTION (VOC) REGULATIONS
- ABLATIVE FINISH REDUCES COATING BUILDUP

GENERAL DESCRIPTION

Aqua-Clean is a waterbased antifouling bottom coating designed to give long term protection against all types of marine and fresh water fouling. It's waterbased formula results in an effective product that is easy to apply and environmentally safer to use.

APPLICATION DATA

Aqua-Clean is heavily loaded with cuprous oxide. As a result of this loading there is a tendency for settling to occur, especially if the paint has been on the shelf for several months. It is necessary to thoroughly mix the paint before using. If possible, shake the can of paint on a mechanical paint shaker. Before using, check the sides and bottom of the can to make sure all the pigment has been mixed in. If mixing is going to be done with a wooden paddle or an electric drill mixer, pour off half of the liquid from the top of the can into another can and then properly mix in any settled pigment; then remix the two parts together thoroughly. Adhere to all application instructions, precautions, conditions, and limitations to obtain optimum performance. Refer to individual labels and tech sheets for detailed instructions when using associated products, etc. When spraying, do not thin Aqua-Clean more than 10% (12 ounces per gallon) or inadequate paint film thickness will occur and premature erosion of the finish will be likely.

SURFACE PREPARATION

Coating performance, in general, is proportional to the degree of surface preparation. Follow recommendations carefully, avoiding shortcuts. Inadequate preparation of surfaces will virtually assure inadequate coating performance.

MAINTENANCE

No antifouling paint can be effective under all conditions of exposure. Man made pollution and natural occurrences can adversely affect antifouling paint performance. Extreme hot and cold water temperatures, silt, dirt, oil, brackish water and even electrolysis can ruin an antifouling paint. Therefore, we strongly suggest that the bottom of the boat be checked several times a month to make sure it is clean and that no growth is occurring. Lightly scrub the bottom with a soft brush to remove anything from the antifouling paint surface. Scrubbing is particularly important with boats that are idle for extended periods of time. The self-cleaning nature of the coating is most effective when the boat is used periodically.

PHYSICAL DATA

VEHICLE TYPE...Waterbased Emulsion
 FINISH...Flat
 COLORS...Blue, Red, Black
 COMPONENTS...1
 CURING MECHANISM...Solvent Release
 SOLIDS (theoretical)
 By weight...75+2%
 By volume...40+2%
 COVERAGE...400 sq. ft./gal.
 VOC...140 g/l max.
 FLASH POINT...None

1.1 #/g
5.8

APPLICATION DATA

METHOD...Brush, Roller, Airless or conventional spray.
 NUMBER OF COATS...2 min.
 DRY FILM THICKNESS PER COAT...2-3, with additional coat at waterline.
 APPLICATION TEMP...50° F. Min.
 90° F. Max.

DRY TIME (Hours)

	To Recoat	To Launch
90° F.	1	12
70° F.	2	16
50° F.	4	48

THINNER...Water

ASSOCIATED PRODUCTS

15095 Fiberglass Dewaxer
 6999 Sandless Primer

PETTIT PAINT COMPANY

36 PINE STREET, ROCKAWAY, NJ 07866 (201) 623-3100

SYSTEMS

Coated Surfaces: To paint old, hard antifoulings, thoroughly sand painted surface with 80 grit sandpaper, wipe clean of sanding residue, and apply Aqua-Clean. Old tin copolymers should be sanded thoroughly with 80 grit sandpaper to remove the chalky outer surface, wiped clean of sanding residue, and then may be overcoated directly with Aqua-Clean. Traditional, soft antifoulings should be removed before applying Aqua-Clean.

Fiberglass: Wash the fiberglass with Pettit 15095 Dewaxer to remove parting agents, grease and dirt. Sand thoroughly with 80 grit sandpaper to a dull, frosty finish. Rewash the sanded surface with 15095 Fiberglass Dewaxer and then apply at least two coats of Aqua-Clean. To skip the tedium of sanding, wash the fiberglass twice with 15095 Fiberglass Dewaxer and apply a thin coat of Pettit 6999 Sandless Primer. Let dry one half hour and apply Aqua-Clean. Please note that acetone does not readily clean contaminated surfaces and its use as a cleaner/dewaxer is not recommended.

Blistered Fiberglass: See Pettit Blister Repair Technical Sheet for detailed instruction.

Wooden Hulls: Bare wooden hulls should be sanded thoroughly with 80 grit sandpaper and wiped clean of sanding residue. A primer coat of Aqua-Clean thinned 10% with water should be applied directly to the bare wood. Allow to dry to recoat and then apply two unthinned coats of Aqua-Clean per instructions. Existing, hard antifouling paint should be thoroughly sanded. If priming is necessary on bare wood spots, apply a touch-up coat of Aqua-Clean thinned 10% with water to these areas. Then apply the subsequent coats of Aqua-Clean antifouling paint.

Steel Hulls: To remove loose rust and scale from the metal surface, scrape, sandblast or wire brush. Solvent clean the surface to remove grease and dirt then apply two or three coats of Pettit 6980 Rustlok Primer*. Follow with Aqua-Clean antifouling paint.

Underwater Metal Parts: Abrade to clean bright metal by scraping, sandblasting or wire brushing. Solvent clean and apply one thin coat of Pettit 6455/044 Metal Primer*. Let dry four hours and apply one coat of Pettit 6462 Q.D. Zinc Chromate Primer*, or Pettit 6627 Tie Coat Primer*. Let dry four hours and apply Aqua-Clean or let dry overnight, sand lightly and apply Aqua-Clean.

DO NOT USE THIS PRODUCT ON ALUMINUM HULLS AND OUTDRIVES.

*These are simplified systems for small areas. Please consult your Pettit representative or the Pettit Technical Department for more complex, professional systems. Always read the labels or tech sheets for all products specified herein before using.

MATERIAL
SAFETY
DATA
SHEET

KOP-COAT, INC.
PETTIT PAINT DIVISION

EMERGENCY NUMBER : 800-548-0489
OUTSIDE U.S.A.: 412-227-2700
PRODUCT INFORMATION: 201-625-3100

PETTIT PAINT
36 PINE STREET
ROCKAWAY, NJ 07866

CHEMTREC ASSISTANCE 800-424-9300
CANUTEC: 613-996-6666

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: 6999 Sandless Primer

COMMODITY NUMBER:

SYNONYM: None

PRODUCT USE: Paint/Coating

CHEMICAL FAMILY: Urethane

FORMULA: Mixture

CAS NUMBER: None

H - 1
F - A
R - 0
P - B

DOT INFORMATION

APPLICABLE REGULATION : 49 CFR 171 - 179

U.S. POSTAL REGULATIONS : Not Shippable

DOT PROPER SHIPPING NAME: Paint

DOT HAZARD CLASS: Flammable liquid

LABEL: Flammable liquid

UN/NA NUMBER: UN 1263

LIMITED QUANTITY: Yes

SECTION II - HEALTH/SAFETY ALERT

WARNING: HAZARDOUS MATERIAL
FLAMMABLE LIQUID AND VAPOR
HARMFUL IF INHALED OR SWALLOWED
MAY CAUSE IRRITATION TO SKIN AND EYES
AVOID PROLONGED OR REPEATED BREATHING OF VAPOR
USE WITH ADEQUATE VENTILATION
AVOID PROLONGED AND/OR REPEATED CONTACT
OBSERVE GOOD HYGIENE AND SAFETY PRACTICES WHEN HANDLING THIS PRODUCT
DO NOT USE THIS PRODUCT UNTIL MSDS HAS BEEN READ AND UNDERSTOOD

SECTION III - HEALTH HAZARD INFORMATION

EYE: Direct contact with liquid or vapor may cause irritation.

SKIN: Prolonged and/or repeated contact with the skin may cause defatting characterized by redness, cracking, blistering, irritation and dermatitis.

INHALATION: Inhalation of high concentrations of vapors may cause respiratory tract irritation and central nervous system depression characterized by headache, weakness, dizziness, incoordination and possible collapse.

INGESTION: May cause gastrointestinal disturbances such as nausea, vomiting, diarrhea and effects similar to those described under INHALATION. Aspiration of this product into the lung may cause chemical pneumonitis which can be fatal.

OTHER: See SECTION XII - COMMENTS for additional information on health effects.

REVISION DATE: 10/91

CODE NUMBER: PET000770C9100

SPECIFICATION SHEET NUMBER:

REPLACES SHEET: NA

COMMODITY NUMBER:

SUPPLIER INFORMATION: Same as manufacturer.

SECTION IV - EMERGENCY AND FIRST AID PROCEDURES

EYE CONTACT: Immediately flush with large amounts of water for 15 minutes. Seek medical aid.

SKIN CONTACT: Wash thoroughly with soap and water. If redness, itching, burning or other symptoms develop or persist, seek medical aid. Wash contaminated clothing before reuse.

INHALATION: Remove from exposure. If breathing has stopped or is difficult, administer artificial respiration or oxygen as indicated. Seek medical aid.

INGESTION: Do not induce vomiting. Give 1 glass of milk or 1 to 2 oz (30 to 60g) of activated charcoal in water to victim as tolerated. Seek medical aid. DO NOT ATTEMPT TO GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN: There is no specific antidote for effects from overexposure to this material. Treatment should be directed at the control of symptoms and the clinical condition.

SECTION V - FIRE AND EXPLOSION HAZARD INFORMATION

FLASH PT. & METHOD: 64F/18C (CC) AUTOIGNITION TEMP: No information found

FLAMMABLE LIMITS (% BY VOLUME/AIR):

 LOWER: No information found UPPER: No information found

EXTINGUISHING MEDIA: Use carbon dioxide, dry chemical or foam. Water may be ineffective. Use carbon dioxide, dry chemical, water spray, alcohol or universal type foams as per manufacturer's recommendations.

FIRE-FIGHTING PROCEDURES: Wear complete fire service protective equipment, including full-face MSHA/NIOSH approved self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel.

FIRE AND EXPLOSION HAZARDS: Heat/fire conditions: vapors form flammable/explosive mixtures in air. Vapors heavy, may travel (ground, pit, sewer) to ignition source-flash. Open/closed containers may contain flammable/explosive vapors. Closed containers may explode when exposed to extreme heat (fire). Under fire conditions, may emit irritant/toxic gas and/or fumes.

SENSITIVITY TO MECHANICAL IMPACT: No information found

SENSITIVITY TO STATIC DISCHARGE: No information found

SECTION VI - SPILL, LEAK AND DISPOSAL INFORMATION

SPILL OR LEAK PROCEDURES (PRODUCT): Stop spill/leak if no risk involved. Avoid breathing vapors. Eliminate ALL sources of ignition. Ventilate area. Avoid contact with hot liquid and fumes. Take up carefully to avoid heat and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials. This product released into the environment must be reported to the National Response Center (1-800-424-8802). When this product is spilled or leaked, the reportable quantity is 100 lbs. or more.

----- DOT REPORTABLE QUANTITIES -----

5000 lbs. Methyl Isobutyl Ketone

WASTE DISPOSAL: This product is a US EPA defined ignitable hazardous waste. Dispose of as an ignitable hazardous waste in accordance with local, state and federal regulations.

 SECTION VII - RECOMMENDED EXPOSURE LIMIT/HAZARDOUS INGREDIENTS

EXPOSURE LIMIT (PRODUCT):

*10 minutes

**none established

HAZARDOUS INGREDIENTS	CAS NUMBER	% BY WT.	EXPOSURE LIMIT (PPM;MG/M3)	
Diphenylmethane Diisocyanate	26447-40-5	4	ACGIH-TLV	0.005 0.051
			OSHA-CEIL.	0.02 0.2
			NIOSH	0.005 0.05
			NIOSH-CEIL.*	0.020 0.2
Aromatic Solvent Naphtha	64742-94-5	10	**	
Methyl Isobutyl Ketone	108-10-1	50	ACGIH-TLV	50 205
			ACGIH-STEL	75 307
			OSHA-TWA	50 205
			OSHA-STEL	75 300

----- SARA TITLE III SECTION 313 CHEMICALS -----
 (SEE SECTION VII FOR CAS NUMBERS AND PERCENTAGES)

Methyl Isobutyl Ketone

 SECTION VIII - PERSONAL PROTECTION INFORMATION

EYE PROTECTION: Industrial safety glasses, minimum. When needed for 29 CFR 1910.133 (work area conditions), use side shields, goggles and/or faceshield. Chemical goggles; face shield (if splashing is possible).

SKIN PROTECTION: As required, industrial resistant flexible-type gloves (heavy duty neoprene or equal - see Section XII).

Wear industrial-type work clothing and safety footwear.

Depending on working conditions, i.e., contact potential, wear resistant protective garments such as head/neck cover, aprons, jackets, pants, coveralls, boots, etc.

RESPIRATORY PROTECTION: If ventilation does not maintain inhalation exposures below PEL(TLV); use MSHA/NIOSH approved units as per current 29 CFR 1910.134, Instructions/Warnings and NIOSH-Respirator Decision Logic-Pub.#87.108. If within OSHA protection factor, air purifying OV/filter units OK.

VENTILATION: Provide sufficient general/local exhaust ventilation in pattern/volume to control inhalation exposures below current exposure limits and areas below flammable vapor concentrations. Local exhaust is necessary for use in enclosed or confined spaces. See OSHA requirements/NIOSH publication 87-113 "...Confined Spaces".

 SECTION IX - PERSONAL HANDLING INSTRUCTIONS

HANDLING: Avoid prolonged or repeated contact with skin or eyes. Avoid prolonged or repeated breathing of vapors, mists or fumes. Handle and use in accordance with OSHA 29CFR1910.106/local codes. Spray paint in accordance with OSHA 29 CFR 1910.107. Observe good personal hygiene practices and recommended procedures.

STORAGE: Store in areas/buildings designed to comply with OSHA 1910.106. Keep in a closed, labeled container within a cool (well shaded), dry, ventilated

area. Protect from physical damage. Keep containers closed when material is not in use. Maintain good housekeeping.

OTHER: Ground and bond drums. Do not use pressure to empty drums. Do not wear contaminated clothing. Discard contaminated footwear. Keep away from heat and open flame. See SECTION XII (COMMENTS) for additional information. Do not use without fully understanding Section X - "Reactivity Data".

SECTION X - REACTIVITY DATA

CONDITIONS CONTRIBUTING TO INSTABILITY: None

INCOMPATIBILITY: Avoid oxidizing agents, heat, sparks and open flames

HAZARDOUS REACTIONS/DECOMPOSITION/COMBUSTION PRODUCTS: Carbon monoxide, carbon dioxide upon thermal decomposition

CONDITIONS CONTRIBUTING TO HAZARDOUS POLYMERIZATION: None
-----SECTION XI - PHYSICAL DATA

BOILING POINT: 240-350F

SPEC. GRAV. OR WT/GAL: 7.80 lbs/gal

MELTING POINT: Not applicable

% VOLATILE BY VOL: 80

VAPOR PRESSURE: No information found

EVAPORATION RATE(ETHER=1): 1

VAPOR DENSITY(AIR=1): 1

VISCOSITY: No information found

SOLUBILITY

(WATER): negligible

pH: Not applicable

VOC: No information found

COEFFICIENT OF WATER/OIL DISTRIBUTION: No information found

APPEARANCE/ODOR: viscous liquid with a typical solvent odor.
-----SECTION XII - COMMENTS

Individuals with pre-existing disease in or a history of ailments involving the skin, eye, respiratory tract, liver, kidney, central nervous system are at a greater than normal risk of developing adverse effects when exposed to this material.

EMPTY CONTAINERS may retain product residue including flammable or explosive vapors. Do not cut, drill, grind or weld on or near full, partially full or empty product containers.

No known ingredients which occur at greater than 0.1% are listed as a carcinogen in the IARC Monographs on the Evaluation of the Carcinogenic Risk of Chemicals to Humans, the NTP Annual Report on Carcinogens or OSHA 29 CFR 1910.1001-1047 subpart Z Toxic and Hazardous Substances (Specifically Regulated Substances).

SKIN PROTECTION (protective material): Permeation/degradation values of chemical mixtures cannot be predicted from pure components or chemical classes.

Thus, these materials are normally best estimates based on available pure component data. A significant difference in chemical breakthrough time has been reported for generically similar gloves from different manufacturers (AIHA

J., 48, 941-947 1987).

Do not use until manufacturer's precautions have been read/understood. Wash exposed areas promptly and thoroughly after skin contact from working with this product and before eating, drinking, using tobacco products or rest rooms.

Do not wear contact lens without proper eye protection when using this product.

Prepared By: Occupational Health and Product Safety Department - C.A.Hope

NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Kop-Coat, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

#QT

Pettit Paints

MATERIAL SAFETY DATA SHEET

868901
PAGE 1 OF 4
6/13/96

KOP-COAT, INC
MARINE GROUP EAST
36 PINE STREET
ROCKAWAY
NJ 07866

EMERGENCIES
HEALTH/SPILLS.....: 800-548-0489
CHEMTREC ASSISTANCE: 800-424-9300
CANUTEC.....: 613-996-6666

KOP-COAT, INC
PRODUCT INFORMATION: 800-221-4466
OUTSIDE USA.....: 201-625-3100

1 PRODUCT IDENTIFICATION

PRODUCT NAME: 12120 No. 120 Brushing Thinner
PRODUCT USE.: Thinner/Dewaxer
APPEARANCE...: Clear liquid with hydrocarbon odor
CAS NUMBER...: Mixture
SYNONYMS.....: None

REVISION...: 1
DATE.....: 11/16/95
MSDS NUMBER: 11212006

2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
Petroleum naphtha	NIOSH	-		350	
CAS NUMBER:64742-88-7	NIOSH STEL	-		1800	
PERCENT BY WGT: 20 TO 25	OSHA TWA	400		1600	
Petroleum distillates	NIOSH	-		350	
CAS NUMBER:64742-95-6	NIOSH STEL	-		1800	4
PERCENT BY WGT: 70 TO 75	OSHA TWA	400		1600	

NOTES:

4) The short term exposure limit (STEL) is a 15-minute TWA that should not be exceeded at any time during a workday.

3 HAZARDS IDENTIFICATION

EYE: Direct contact with liquid or vapor may cause irritation.

SKIN: Prolonged or repeated contact with the skin can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash).

INHALATION: Avoid breathing vapors or mists. High concentrations may lead to central nervous system effects (drowsiness, dizziness, nausea, headaches). Prolonged or repeated inhalation and ingestion may cause delayed injury involving the kidneys and the blood.

INGESTION: Irritating to the nose, throat and respiratory tract. May cause vomiting. Aspiration of this product into the lung may cause chemical pneumonitis which can be fatal.

Individuals with pre-existing disease in or a history of ailments involving the skin, eye, respiratory tract, liver, kidney, central nervous system are at a greater than normal risk of developing adverse effects when exposed to this material.

4 FIRST AID MEASURES

EYE CONTACT: Immediately flush with plenty of water for at least 15 minutes. Get medical attention.

SKIN CONTACT: Remove contaminated clothing. Wash thoroughly with soap and

PRODUCT NAME: 12120 No. 120 Brushing Thinner

PAGE 2 OF 4

4 FIRST AID MEASURES

water. If redness, itching, burning or other symptoms develop or persist, get medical attention. Wash contaminated clothing before reuse.

INHALATION: If you experience difficulty in breathing, leave the area to obtain fresh air. If breathing has stopped have a trained person administer artificial respiration preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.

INGESTION: If swallowed do NOT induce vomiting. Give victim a glass of water or milk. Get medical attention. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

NOTE TO PHYSICIAN: There is no specific antidote for effects from overexposure to this material. Treatment should be directed at the control of symptoms and the clinical condition.

5 FIRE FIGHTING MEASURES

FLASH POINT: 107 F/42C

EXTINGUISHING MEDIA: Use dry chemical, carbon dioxide, water spray or foam.

FIRE FIGHTING PROCEDURES: As in any fire, wear complete fire service protective equipment, including full-face MSHA/NIOSH approved or equivalent self-contained breathing apparatus. Use water to cool fire-exposed container/structure/protect personnel.

FIRE AND EXPLOSION HAZARDS: Can release vapors that form explosive mixtures. Vapors can travel to a source of ignition and flash back. Closed containers may explode when exposed to extreme heat (fire). Toxic vapors may be given off in a fire.

6 SPILL AND LEAK PROCEDURES

Stop spill/leak if no risk involved. Avoid breathing vapors. Eliminate ALL sources of ignition. Ventilate area. Take up carefully to avoid heat and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

7 HANDLING AND STORAGE

HANDLING: Avoid prolonged or repeated breathing of vapors, mists or fumes. Do not get on skin, in eyes or on clothing. Wash thoroughly after handling.

STORAGE: Keep in a closed, labeled container within a cool (well-shaded), dry, ventilated area. Protect from physical damage. Keep containers closed when material is not in use. Maintain good housekeeping.

OTHER: Keep away from heat and open flame. Do not use until manufacturer's precautions have been read/understood.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Ventilation is normally required when handling or using this product to keep exposure to airborne contaminants below the exposure limit. Facilities storing or utilizing this product should be equipped with an eyewash facility.

RESPIRATORS: Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor levels are above applicable limits, wear an appropriate, properly fitted

PRODUCT NAME: 12120 No. 120 Brushing Thinner

PAGE 3 OF 4

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

respirator (NIOSH/MSHA approved or equivalent) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. A respiratory protection program that meets 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

PERSONAL PROTECTIVE EQUIPMENT: Industrial safety glasses at a minimum. As necessary for work area conditions: use side shields, goggles, or faceshield. As required, chemical resistant flexible-type gloves (heavy duty neoprene or equal). Wear industrial-type work clothing and safety footwear. Depending on working conditions, i.e., contact potential, wear resistant protective garments such as head/neck cover, aprons, jackets, pants, coveralls, boots, etc.

9 PHYSICAL AND CHEMICAL PROPERTIES

Weight Per Gallon (lbs):	7.080	% VOL by Weight.:	100
Vapor Density.: (air=1)>1		Boiling Point...:	Not determined
Vapor Pressure: Not determined		Evaporation Rate: (ether=1)>1	
pH.....:	Not determined	Specific Gravity: < 1	
Solubility In Water: Negligible		Viscosity.....:	Not determined
VOC Content.....:	848 g/L		

100%⁷⁰

10 STABILITY AND REACTIVITY DATA

STABILITY: None
HAZARDOUS POLYMERIZATION: None
INCOMPATIBILITY: Avoid oxidizing agents, heat, sparks and open flames.
HAZARDOUS DECOMPOSITION PRODUCT(S): Carbon monoxide, carbon dioxide upon thermal decomposition.

11 TOXICOLOGICAL INFORMATION

Contact Kop-Coat for applicable information.

12 ECOLOGICAL INFORMATION

Product has not been tested for ecotoxicity.

13 DISPOSAL CONSIDERATIONS

This product as supplied is a USEPA defined ignitable hazardous waste. Dispose of unusable product as a hazardous waste (D001) in accordance with local, state and federal regulations.

14 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME: Consumer commodity
DOT HAZARD CLASS: ORM-D
LABEL: None
DOT IDENTIFICATION NUMBER: None

15 REGULATORY INFORMATION

No information available.

16 OTHER INFORMATION

06/12/96 10:25
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KOP-COAT PITTSBURGH

2272618

FAX NO. 2272618

P. 10

PRODUCT NAME: 12120 No. 120 Brushing Thinner

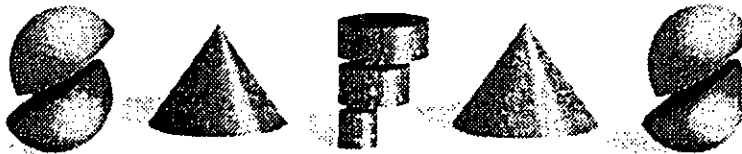
PAGE 4 OF 4

16 OTHER INFORMATION

NOTE: The petroleum distillate (CAS# 64742-95-6) may contain approximately 7% xylene, 3% cumene and 40% trimethylbenzene.

NOTICE: While the information and recommendations set forth herein are believed to be accurate as of the date hereof, Kop-Coat, Inc. makes no warranty with respect thereto and disclaims all liability from reliance thereon.

PREPARED BY: L. Briggs Manager Environmental and Regulatory Affairs



10-120-
893420

MATERIAL SAFETY DATA SHEET

Information Telephone Number (201) 772-5252

ALL CHEMICAL EMERGENCIES

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SECTION I - PRODUCT IDENTIFICATION

Product Code: B-WH, B-BL, B-GY, B-BO, B-TL, B-PK, B-PL
 Trade Name: **BACKCOAT**
 Product Class: Unsaturated Polyester Resin
 C.A.S. Number: Mixture
 HMIS Rating: Health = 2 Fire = 3 Reactivity = 2

SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Max. Content</u>	<u>Exposure Limits</u>
Styrene Monomer	100-42-5	32%	50.0 ppm
Polyester Resin	Proprietary	Proprietary	Non Assigned
Galaxy Granules	N/A	Proprietary	N/A
Inorganic Filler	N/A	Proprietary	N/A
Pigment (TiO2)	13463-67-7	Proprietary	N/A

SECTION III - PHYSICAL DATA

Boiling Point: 270-300°F Vapor Density: Heavier than air
 Specific Gravity: 1.2 Volatile %: 40 by weight
 Evaporation Rate: Slower than n-Butyl Acetate
 Appearance: Colored liquid with high viscosity

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 1C Flash Point: 92°F
 LEL: 1.1

- EXTINGUISHING MEDIA: Water spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.
- SPECIAL FIRE FIGHTING PROCEDURE: Fire fighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
- UNUSUAL FIRE & EXPLOSION HAZARDS: At elevated temperatures, such as in a fire, polymerization may take place. If polymerization takes place in a closed container, there is the possibility of violent rupture of the container. Product vapor may form an explosive mixture in air.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If a TLV or PEL listed in section V of this data sheet is exceeded, then suitable respiratory protection must be worn to prevent overexposure.

- **VENTILATION:** General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure levels below the TLV listed in Section II of this data sheet.

- **PROTECTIVE GLOVES:** Wear appropriate impervious gloves to prevent skin contact.

- **EYE PROTECTION:** Wear face shield or protective goggles.

- **OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing to prevent skin contact. Eye wash station and safety shower should be available.

SECTION IX - SPECIAL PRECAUTIONS

- **PRECAUTIONS TO BE TAKEN FOR HANDLING AND STORING:** Avoid storage above 72°F. Avoid prolonged or repeated skin contact. Avoid inhalation of heated vapors or spray mists.

- **OTHER PRECAUTIONS:** Avoid improper addition of promoter and/or catalyst. A promoter and catalyst used with this product should be mixed separately with the product and must never be mixed together.

SECTION X - SUPPLEMENTAL INFORMATION

- **REGULATORY INFORMATION:** SCAQMD Rule 1162 establishes specific process, control, housekeeping and record keeping requirements for fabrication operations using polyester resin materials. It is the responsibility of the fabricator to ensure compliance with these requirements. **Styrene is NOT currently listed as a carcinogen by California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).**

- **SARA HAZARD CLASSIFICATION:** This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute, fire.

- **SARA SECTION 313 LISTED INGREDIENTS:** The following ingredients in this material are subject to the reporting requirements of section 313 of SARA and 40 CFR 372 {see Section II for percentage of ingredient(s)}.

Styrene Monomer (100-42-5)

- DOT PROPER SHIPPING NAME: Resin Solution

- UN NUMBER: UN1866

- DOT HAZARD CLASS: Flammable liquid

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894 782
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ALL CHEMICAL EMERGENCIES

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SECTION I - PRODUCT IDENTIFICATION

Product Code: Alexander, Alicon, Nury, Accent, Solids
 Trade Name: GRANICOAT
 Product Class: Unsaturated Polyester Resin
 C.A.S. Number: Mixture
 HMIS Rating: Health = 2 Fire = 3 Reactivity = 2

SECTION II - INGREDIENTS

<u>Ingredients</u>	<u>CAS#</u>	<u>Max. Content</u>	<u>Exposure Limits</u>
Styrene Monomer	100-42-5	24%	50.0 ppm
Methyl Methacrylate	80-62-6	4%	100.0 ppm
Polyester Resin	Proprietary	Proprietary	Non Assigned
Galaxy Granules	N/A	Proprietary	N/A
Inorganic Filler	N/A	Proprietary	N/A
Pigment (TiO2)	13463-67-7	Proprietary	N/A

SECTION III - PHYSICAL DATA

Boiling Point: 270-300°F Vapor Density: Heavier than air
 Specific Gravity: 1.4 Volatile %: 28 by weight
 Evaporation Rate: Slower than n-Butyl Acetate
 Appearance: Colored liquid with high viscosity

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 1C Flash Point: 92°F
 LEL: 1.1

- EXTINGUISHING MEDIA: Water spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.
- SPECIAL FIRE FIGHTING PROCEDURE: Fire fighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
- UNUSUAL FIRE & EXPLOSION HAZARDS: At elevated temperatures, such as in a fire, polymerization may take place. If polymerization takes place in a closed container, there is the possibility of violent rupture of the container. Product vapor may form an explosive mixture in air.

SECTION V - HEALTH HAZARD DATA

- PERMISSIBLE EXPOSURE LEVEL: OSHA, PEL and ACGIH TLV for styrene are 50 ppm for an eight hour Time Weighted Average (TWA). The OSHA and ACGIH Short Term Exposure Level (STEL) are 100 ppm for a fifteen minute period (no ceiling for brief exposures), however the average for a single STEL period must not exceed 100 ppm.

- EFFECTS OF OVEREXPOSURE:

SKIN: Prolonged or frequent contact may cause defatting and dryness of the skin with resultant irritation and possible dermatitis. Styrene may be absorbed through the skin in toxic amounts.

EYES: May cause irritation. Liquid splashes may result in more serious injuries. May cause lachrymation (tears).

INHALATION: Vapors may cause mucous membrane irritation and upper respiratory tract discomfort. High concentrations may result in headache, nausea, insensibility and other central nervous system effects.

INGESTION: May cause gastrointestinal disturbances, pain and discomfort.

- FIRST AID:

SKIN: Wash with soap and water.

EYES: Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

INHALATION: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

INGESTION: DO NOT INDUCE VOMITING (aspiration hazard). Seek immediate medical help.

- PRIMARY ROUTE(S) OF ENTRY: Inhalation and skin absorption.

SECTION VI - REACTIVITY DATA

- STABILITY: Unstable Stable
- HAZARDOUS POLYMERIZATION: May occur May NOT occur
- INCOMPATIBILITY: Strong acids and oxidizing agents.
- CONDITIONS TO AVOID: Heat and direct sunlight.
- HAZARDOUS DECOMPOSITION PRODUCTS:
Heating of this material to decomposition may cause the emission of irritating acrid fumes.

SECTION VII - SPILL OR LEAK PROCEDURES

- STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. This material contains the following ingredients which, if spilled or released in quantities equal to or greater than the Reportable Quantity (RQ), are subject to the reporting requirements of CERCLA and/or SARA (40 CFR parts 302 & 355):

Styrene Monomer	RQ Value = 1,000 lbs
Methyl Methacrylate	RQ Value = 1,000 lbs

- WASTE DISPOSAL METHOD:

This material has been tested and found to have to have a flash point below 140°F. If discarded, this material and containers should be treated as hazardous wastes based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261). Disposal of this material and its container, requires compliance with applicable labeling, packaging, and record keeping standards. Solidified and/or scrap finished product is Non-hazardous under RCRA. Check local regulation for details on disposal. For further information, contact your state or local waste agency or the Federal EPA RCRA hotline (800-424-9346 or 202-382-3000).

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: If a TLV or PEL listed in section V of this data sheet is exceeded, then suitable respiratory protection must be worn to prevent overexposure.

- **VENTILATION:** General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure levels below the TLV listed in Section II of this data sheet.
- **PROTECTIVE GLOVES:** Wear appropriate impervious gloves to prevent skin contact.
- **EYE PROTECTION:** Wear face shield or protective goggles.
- **OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing to prevent skin contact. Eye wash station and safety shower should be available.

SECTION IX - SPECIAL PRECAUTIONS

- **PRECAUTIONS TO BE TAKEN FOR HANDLING AND STORING:** Avoid storage above 72°F. Avoid prolonged or repeated skin contact. Avoid inhalation of heated vapors or spray mists.
- **OTHER PRECAUTIONS:** Avoid improper addition of promoter and/or catalyst. A promoter and catalyst used with this product should be mixed separately with the product and must never be mixed together.

SECTION X - SUPPLEMENTAL INFORMATION

- **REGULATORY INFORMATION:** SCAQMD Rule 1162 establishes specific process, control, housekeeping and record keeping requirements for fabrication operations using polyester resin materials. It is the responsibility of the fabricator to ensure compliance with these requirements. Styrene is NOT currently listed as a carcinogen by California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).
- **SARA HAZARD CLASSIFICATION:** This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute, fire.
- **SARA SECTION 313 LISTED INGREDIENTS:** The following ingredients in this material are subject to the reporting requirements of section 313 of SARA and 40 CFR 372 (see Section-II for percentage of ingredient(s)).
 - Styrene Monomer (100-42-5)
 - Methyl Methacrylate (80-62-6)
- **DOT PROPER SHIPPING NAME:** Resin Solution
- **UN NUMBER:** UN1866
- **DOT HAZARD CLASS:** Flammable liquid

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MATERIAL SAFETY DATA SHEET

Information Telephone Number (201) 772-5252

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893420

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1-800-424-9300 - USA
1-202-483-7616 - International

Issue Date: 9/95

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SECTION I - PRODUCT IDENTIFICATION

Product Code: B-WH, B-BL, B-GY, B-BO, B-TL, B-PK, B-PL
Trade Name: BACKCOAT
Product Class: Unsaturated Polyester Resin
C.A.S. Number: Mixture
HMIS Rating: Health = 2 Fire = 3 Reactivity = 2

SECTION II - INGREDIENTS

Ingredients	CAS#	Max. Content	Exposure Limits
Styrene Monomer	100-42-5	32%	50.0 ppm
Polyester Resin	Proprietary	Proprietary	Non Assigned
Galaxy Granules	N/A	Proprietary	N/A
Inorganic Filler	N/A	Proprietary	N/A
Pigment (TiO2)	13463-67-7	Proprietary	N/A

SECTION III - PHYSICAL DATA

Boiling Point: 270-300°F
Specific Gravity: 1.2
Evaporation Rate: Slower than n-Butyl Acetate
Appearance: Colored liquid with high viscosity
Vapor Density: Heavier than air
Volatile %: 40 by weight

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability Class: 1C
LEL: 1.1
Flash Point: 92°F

- EXTINGUISHING MEDIA: Water spray, foam, dry chemical, carbon dioxide or any Class B extinguishing agent.
- SPECIAL FIRE FIGHTING PROCEDURE: Fire fighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus. Equipment should be thoroughly decontaminated after use.
- UNUSUAL FIRE & EXPLOSION HAZARDS: At elevated temperatures, such as in a fire, polymerization may take place. If polymerization takes place in a closed container, there is the possibility of violent rupture of the container. Product vapor may form an explosive mixture in air.

SECTION V - HEALTH HAZARD DATA

- PERMISSIBLE EXPOSURE LEVEL: OSHA, PEL and ACGIH TLV for styrene are 50 ppm for an eight hour Time Weighted Average (TWA). The OSHA and ACGIH Short Term Exposure Level (STEL) are 100 ppm for a fifteen minute period (no ceiling for brief exposures), however the average for a single STEL period must not exceed 100 ppm.

- EFFECTS OF OVEREXPOSURE:

SKIN: Prolonged or frequent contact may cause defatting and dryness of the skin with resultant irritation and possible dermatitis. Styrene may be absorbed through the skin in toxic amounts.

EYES: May cause irritation. Liquid splashes may result in more serious injuries. May cause lachrymation (tears).

INHALATION: Vapors may cause mucous membrane irritation and upper respiratory tract discomfort. High concentrations may result in headache, nausea, insensibility and other central nervous system effects.

INGESTION: May cause gastrointestinal disturbances, pain and discomfort.

- FIRST AID:

SKIN: Wash with soap and water.

EYES: Flush with copious amounts of water for 15 minutes. Seek immediate medical aid.

INHALATION: Remove victim from exposure. If victim is unconscious, administer artificial respiration and/or oxygen as needed. Seek medical aid.

INGESTION: DO NOT INDUCE VOMITING (aspiration hazard). Seek immediate medical help.

- PRIMARY ROUTE(S) OF ENTRY: Inhalation and skin absorption.

SECTION VI - REACTIVITY DATA

- STABILITY: Unstable Stable
- HAZARDOUS POLYMERIZATION: May occur May NOT occur
- INCOMPATIBILITY: Strong acids and oxidizing agents.
- CONDITIONS TO AVOID: Heat and direct sunlight.
- HAZARDOUS DECOMPOSITION PRODUCTS:

Heating of this material to decomposition may cause the emission of irritating acrid fumes.

SECTION VII - SPILL OR LEAK PROCEDURES

- STEPS TO TAKE IN CASE MATERIAL IS RELEASED OR SPILLED:

Remove all sources of ignition. Ventilate area. Absorb spill with an absorbent material such as sawdust, vermiculite or sand and place in a closed container. If large spill, dike the area to prevent this material from entering water systems or sewers. This material contains the following ingredients which, if spilled or released in quantities equal to or greater than the Reportable Quantity (RQ), are subject to the reporting requirements of CERCLA and/or SARA (40 CFR parts 302 & 355):

Styrene Monomer

RQ Value = 1,000 lbs

- WASTE DISPOSAL METHOD:

This material has been tested and found to have a flash point below 140°F. If discarded, this material and containers should be treated as hazardous wastes based on the characteristic of ignitability as defined under the federal RCRA regulations (40 CFR 261). Disposal of this material and its container, requires compliance with applicable labeling, packaging, and record keeping standards. Solidified and/or scrap finished product is Non-hazardous under RCRA. Check local regulation for details on disposal. For further information, contact your state or local waste agency or the Federal EPA RCRA hotline (800-424-9346 or 202-382-3000).

SECTION VIII - SPECIAL PROTECTION INFORMATION

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- **VENTILATION:** General ventilation is required during normal use. Local ventilation may be required during certain operations to keep exposure levels below the TLV listed in Section II of this data sheet.

- **PROTECTIVE GLOVES:** Wear appropriate impervious gloves to prevent skin contact.

- **EYE PROTECTION:** Wear face shield or protective goggles.

- **OTHER PROTECTIVE EQUIPMENT:** Wear protective clothing to prevent skin contact. Eye wash station and safety shower should be available.

SECTION IX - SPECIAL PRECAUTIONS

- **PRECAUTIONS TO BE TAKEN FOR HANDLING AND STORING:** Avoid storage above 72°F. Avoid prolonged or repeated skin contact. Avoid inhalation of heated vapors or spray mists.

- **OTHER PRECAUTIONS:** Avoid improper addition of promoter and/or catalyst. A promoter and catalyst used with this product should be mixed separately with the product and must never be mixed together.

SECTION X - SUPPLEMENTAL INFORMATION

- **REGULATORY INFORMATION:** SCAQMD Rule 1162 establishes specific process, control, housekeeping and record keeping requirements for fabrication operations using polyester resin materials. It is the responsibility of the fabricator to ensure compliance with these requirements. Styrene is NOT currently listed as a carcinogen by California's Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65).

- **SARA HAZARD CLASSIFICATION:** This material has been categorized as having the following hazard(s) as defined by SARA Title III regulations (40 CFR 370): acute, fire.

- **SARA SECTION 313 LISTED INGREDIENTS:** The following ingredients in this material are subject to the reporting requirements of section 313 of SARA and 40 CFR 372 (see Section II for percentage of ingredient(s)).
Styrene Monomer (100-42-5)

- **DOT PROPER SHIPPING NAME:** Resin Solution

- **UN NUMBER:** UN1866

- **DOT HAZARD CLASS:** Flammable liquid

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MATERIAL SAFETY DATA SHEET

Inc.
 PO Box 2385
 Riverview, MI 48192-1385
 (413) 285-1480

PREPARED: February 1996
 By: Cliff Danville
 24 hr EMERGENCY PHONE#
 (800) 424-9300 (Chemtrec)

Section 1 - IDENTITY

10-110-896886

PRODUCT NAMES: 60112-50

SHIPING DESCRIPTION: Environmentally hazardous substances, solid, n.o.
 (Styrene monomer, inhibited), 9, UN 3077, PG III, Marine Pollutant
 Note: 49 CFR 171.4(c) excepts marine pollutants from regulation when
 transported in a non-bulk packaging by motor vehicle, rail car, or aircraft.

Section 2 - COMPONENTS

INGREDIENT	CAS NUMBER	PERCENT	ACGIH	OSHA	RQ
			TLV	PEL	
Epoxy Resin	64386-66-9 or 26123-45-5	25-27	-	-	-
Styrene Monomer	100-42-5	11-13	50ppm	100ppm	1000 lbs
inert Fillers	MIXTURE	61-63	*	**	-

IRITANCE DUST	* ACGIH TLV	** OSHA PEL
Total Dust	10mg/m3	15mg/m3
Respirable Dust	5mg/m3	5mg/m3

Section 3 - PHYSICAL DATA

Boiling Point: N/D
 Vapor Pressure: N/D
 Vapor Density (Air=1): 3.6 (for Styrene)
 Specific Gravity (H2O=1): 1.4 - 1.5
 Percent Volatile: 11-13 (By Weight)
 Melting Point: N/A
 Evaporation Rate (Butyl Acetate=1): Less Than 1 (for Styrene)
 Solubility in Water: Negligible
 Appearance and Odor: Thick paste with pungent odor

Section 4 - SUPPLIER NOTIFICATION

This product contains toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS#	CHEMICAL NAME	PERCENT
100-42-5	Styrene	11-13

California Proposition 65: Styrene Oxide is listed as known to the State of California to cause cancer. Styrene Oxide is a metabolite of Styrene monomer.

Section 5 - FIRE AND EXPLOSION DATA

Flash Point (for Styrene): 89-90 Deg. F Method Used: Closed cup (SEFA)
 Flammable Limits by volume (for styrene): LEL 1.1% UEL 6.1%
 EXTINGUISHING MEDIA: Water or Foam or Carbon Dioxide or Dry Chemical
 SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MSHA approved self-contained breathing apparatus to avoid inhalation of smoke.

Section 6 - HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE: Can cause skin and eye irritation. Excessive inhalation of vapors can cause nasal and respiratory irritation; central nervous system effects include dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Ingestion can cause gastrointestinal irritation, vomiting, diarrhea.

EFFECTS OF CHRONIC OVEREXPOSURE: The International Agency for Research on Cancer (IARC) has classified styrene in Group 2B (Possibly Carcinogenic to Humans). This classification is not based on any significant new evidence that styrene may be carcinogenic, but rather on a revised definition for Group 2B and consideration of new data on styrene oxide. A number of lifetime animal studies with styrene including those conducted in the NCI Bioassay Program have not shown styrene to be carcinogenic. There is currently not sufficient evidence to indicate that styrene is carcinogenic to humans.

NOTE: Overexposure to styrene has been found to cause the following effects in laboratory animals: liver abnormalities, kidney damage and lung damage.

PRIMARY ROUTES OF ENTRY: Inhalation, Skin Contact.

FIRST AID:

EYES: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

SKIN WASH: Wash skin & contaminated clothing thoroughly with soap and water.

INHALATION: Remove to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give CPR. Keep person warm, quiet and get medical attention.

INGESTION: Do not induce vomiting. Aspiration into lungs can cause chemical pneumonitis. See a physician.

Section 7 - PRECAUTIONS FOR SAFE HANDLING AND USE

STORAGE: Avoid temperatures of over 100 deg. F.

WASTE DISPOSAL: Dispose in accordance with local, state and federal regulations.

VENTILATION: Provide sufficient ventilation to maintain exposure below TLV for styrene.

PROTECTIVE EQUIPMENT: Normal work clothes covering arms and legs. Gloves and eye protection should also be worn. If concentration levels for styrene are above recommended exposure, organic vapor respirator should be worn. Use appropriate dust mask and eye protection when sanding, cutting or grinding cured materials as nuisance dust may be created.

THE INFORMATION accumulated herein is believed to be accurate but is not warranted to be whether originating with DBF or not. Recipients are advised to confirm in advance of need that the information is current, information is current, applicable, and suitable to their circumstances.

Section 8 - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Can Occur. Avoid exposure to excessive heat, peroxides and polymerization catalysts.

STABILITY: Stable

COMPATIBILITY: Avoid contact with: strong alkalis, strong mineral acids and oxidizing agents.

CONDITIONS TO AVOID: Exposure to excessive heat or open flame; storage in open containers; long exposure to intense sunlight; contamination with oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon Monoxide, Carbon Dioxide, Low Molecular Weight Hydrocarbons, Organic Acids.

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

900381

HEALTH 1 FIRE 2 REACTIVITY 0 HMIS LEAST- 0 SLIGHT- 1 MODERATE- 2
HAZARD RATING: HIGH - 3 EXTREME - 4

PRODUCT NAME: PALMOLIVE DISHWASHING LIQUID
PALMOLIVE DISHWASHING LIQUID with LEMON-LIME.

STOCK #/UPC#: 46000, 46101, 46170, 46111, 46201, 45803, 46400
46600, 46670, 46611, 46701, 45903

CAS NUMBER: Not applicable; product is a mixture.

GENERAL USE: Both products are formulated liquid detergents for hand
dishwashing. Packaged in 12 oz. (#46000), 22 oz. (#46101 and # 46600), 26.4
oz. (#46170 and # 46670), 31.9 oz. (#46111 and # 46611), 32 oz. (#46201 and
46701), 42 oz. (#45803 and #45903) and 64 oz. (#446400) size.

COLGATE-PALMOLIVE COMPANY 300 Park Avenue
New York, NY 10022

For consumer information: Call (800-221- 4607)

EMERGENCY TELEPHONE NUMBER: For emergency involving spill, leak, fire,
exposure or accident, call CHEMTREC: (800) 424-9300, day or night.

PITTSBURGH POISON CENTER HAS BEEN PROVIDED SPECIFIC INFORMATION FOR USE IN
LOCAL EMERGENCIES INVOLVING THIS PRODUCT:
CALL COLLECT: (412) 692-5596.

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA REGULATED COMPONENTS (present at a concentration > or = 1%):

Component	CAS #	%	PEL	TLV
Ethyl Alcohol	00064-17-5	4.3	1900 mg/m3	1880 mg/m3

The specific chemical identities of the ingredients of this mixture are
considered by Colgate to be trade secrets and are withheld in accordance with
the provisions of 29 CFR 1910.1200.

The following components, present at a concentration > or = 0.1%, are listed as
carcinogens or potential carcinogens by either the National Toxicology Program
(NTP), the International Agency for Research on Cancer (IARC) or OSHA:

Component	CAS #	%	PEL	TLV
None				

3. HAZARDS IDENTIFICATION

MIXTURE HAS NOT BEEN TESTED AS A WHOLE

POTENTIAL HEALTH EFFECTS :

EYE CONTACT: Eye irritant upon direct contact.

SKIN CONTACT: May cause skin irritation upon prolonged contact.

INGESTION: Nausea, vomiting and diarrhea.

INHALATION: Not known.

Special Conditions Generally Aggravated by Exposure: Not Known

4. FIRST AID MEASURES

EYE CONTACT: Flush eye with large amounts of warm water for 15 minutes. If irritation persists, call your poison center or doctor.

SKIN CONTACT: No problem expected, but if skin irritation occurs, discontinue use of product unless precautionary measures are used (rubber or plastic gloves).

INGESTION: If you eat or drink this product, you may throw up. Drink sips of water or milk. If vomiting continues, call your poison center or doctor.

INHALATION: Expect no problems.

5. FIRE FIGHTING MEASURES

Flash Point (Method): 134°F (Tag closed cup)

Although this product has a flash point below 200 °F (closed cup), it is an aqueous solution containing ethyl alcohol which does not sustain combustion.

Extinguishing Media: Use water, CO₂, Foam, Dry Chemicals (For case lots of product exposed to fire).

SPECIAL FIRE FIGHTING PROCEDURES:

Self-contained breathing apparatus and protective clothing should be worn when fighting chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Small spills can be wiped up with a cloth, paper or standard absorbents (Sawdust, vermiculite) or vacuumed up. Rinse area thoroughly with water, be alert for slippery surfaces.

7. HANDLING AND STORAGE

Store in a cool dry place (40°F to 125°F).

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Work/ Hygiene Practices: Avoid contact with skin and eyes. Under normal conditions of product use, no special protection for eyes/skin is required. Prolonged daily hand dishwashing with any detergent may cause irritation of the hands. Use of rubber or plastic gloves is recommended in such instances.

DO NOT USE WITH CHLORINE BLEACH to avoid irritating fumes.

KEEP OUT OF THE REACH OF CHILDREN.

9. PHYSICAL AND CHEMICAL PROPERTIES

Boiling Point: Not Applicable: Evaporation Rate: Not Applicable
Specific Gravity: 1.05 g/cc Solubility in Water: Very Soluble
Vapor Pressure: Not Applicable Appearance/Odor: Soap/Fragrant
pH (1% Solution) = 7.3 + 0.2

10. STABILITY AND REACTIVITY

GENERAL: This product is stable.

INCOMPATIBLE MATERIALS: None Known.

HAZARDOUS DECOMPOSITION: None known.

11. TOXICOLOGICAL INFORMATION

This product has not been tested as whole. It is expected to cause nausea, vomiting and diarrhea if ingested. It is an eye irritant and may cause skin irritation upon prolonged contact.

Toxicity data for components of this material are available by calling (908) 878-7772.

12. ECOLOGICAL INFORMATION

Not known.

13. DISPOSAL CONSIDERATIONS

Preferred method is to use the product for indicated purposes. Empty containers may be disposed as conventional waste.

The RCRA Hazardous Waste Number for this product is D 001 based on the characteristic of ignitability (40 CFR 261.21)

14. TRANSPORTATION

Non Bulk Containers (<118 gallons)

Consumer Commodity ORM-D

Quantity limitations: Passenger aircraft or railcar 1L

Cargo aircraft only: 30L

Bulk Containers (> 118 gallons)

Flammable liquid, NOS, 3, UN 1993, PG 11

Avoid excessive heat, open flames or other sources of ignition.

15. REGULATORY INFORMATION

OSHA:

Considered hazardous under the OSHA Hazard Communication Standard (29 CFR 1910.1200).

RCRA (40 CFR 261, Subpart D):

The RCRA Hazardous Waste Number for this product is D 001 based on the characteristic of ignitability (40 CFR 261.21)

CLEAN WATER ACT:

Section 311 (Hazardous Substances) 40 CFR Part 116.4

Sodium dodecylbenzenesulfonate (5.3 %) is a Section 311 listed hazardous chemical.

CLEAN AIR ACT:

Section 111 -112 (CFR 60-63)

This product contains Ethyl Alcohol (4.3%) which is listed in Section 111 as a Volatile Organic Compound.

SARA:

Sections 301-304 (Threshold planning quantity - TPQ) 40 CFR 355:

No TPQ for any OSHA regulated component .

Sections 311-312 (Community Right to Know) 40 CFR 370

The TRQ (Threshold reporting quantity) for this product is 10,000 lbs.

Section 313 (Toxic chemical release reporting) 40 CFR 372:

The following chemicals must be reported when released:

Not applicable to any OSHA regulated component .

RCRA:

Section 102 (Reportable Quantity - RQ) 40 CFR 302:

The reportable quantity (RQ) for this product to the environment is 7 lbs.

based on the presence of glycol ethers (14.0%) . The RQ for Sodium dodecylbenzenesulfonate (5.3%) is 18, 867 lbs. Releases greater than or equal to 7 lbs. must be reported to the National Response Center (NRC) immediately: 800, 424-8802.

New Jersey Right to Know Hazardous Substance List : This product contains the following OSHA regulated components subject to reporting requirements: Ethyl Alcohol (4.3%), Sodium dodecylbenzenesulfonate (5.3 %)

Pennsylvania Hazardous Substance List: This product contains the following OSHA regulated components subject to reporting requirements: Ethyl Alcohol (4.3%)

Massachusetts Substance List: This product contains the following OSHA regulated components subject to reporting requirements: Ethyl Alcohol (4.3%), Sodium dodecylbenzene sulfonate (5.3 %)

California Safe Drinking Water and Toxic Enforcement Act

Proposition 65) : This product contains the following OSHA regulated components subject to reporting requirements: None

Canada:

Workplace Hazardous Materials Information System (WHMIS) listed material.

This product contains the following OSHA regulated components subject to reporting requirements:

Ethyl Alcohol (4.3%), Sodium dodecylbenzenesulfonate (5.3%)

6. OTHER INFORMATION

LABEL: PALMOLIVE has always contained ingredients that are biodegradable and phosphate free. Bottle is made with 50% post consumer recycled plastic.

CAUTION: DO NOT USE WITH CHLORINE to avoid irritating fumes. Do not use

in automatic

dishwasher (try Palmolive Automatic Dish Detergent).

KEEP OUT OF REACH OF CHILDREN

This MSDS was revised 08-26-94.

The information on this sheet is limited to the material identified and is believed by the Colgate-Palmolive Company to be correct based on its knowledge and information as of the date noted. Colgate makes no representation, guarantee or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information and assumes no responsibility for injury, damage or loss resulting from the use of the material.

MATERIAL IDENTIFICATION

"CORIAN" PRODUCTS, SILICONE SEALANT ALL COLORS

MSDS NUMBER : COR005
Revision Date : 07-Nov-91
Date Printed : 23-Mar-93

25-110- 911859

MANUFACTURER/DISTRIBUTOR

Du Pont
Polymers
1007 Market Street
Wilmington, DE 19898

1.5 oz
Tube

PHONE NUMBERS

PRODUCT INFORMATION : 1-(800)441-7515
TRANSPORT EMERGENCY : 1-(800)424-9300
MEDICAL EMERGENCY : 1-(800)441-3637

TSCA INVENTORY STATUS : Reported/Included

COMPONENTS

Material CAS Number
ACETOXY SILANES NA
AMORPHOUS SILICA 7631-86-9
DIMETHYL SILICONE POLYMER NA
During cure, Acetic Acid is formed during
exposure to moisture

PHYSICAL DATA

% Volatiles : 5%
Water Solubility : Nil.
Specific Gravity : 1.04

HAZARDOUS REACTIVITY

Instability : Stable at normal temperatures and storage conditions
Incompatibility : None reasonably foreseeable.
Decomposition : Decomposes with heat.
Polymerization : Polymerization will not occur.

FIRE AND EXPLOSION DATA

FLASHPOINT: Above 100 degrees C.

FIRE AND EXPLOSION HAZARDS

FIRE AND EXPLOSION HAZARDS: Sulfur oxides form.

EXTINGUISHING MEDIA

Water. Dry Chemical. CO2.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Wear self-contained breathing apparatus. Wear full protective equipment.

HEALTH HAZARD INFORMATION

ROUTE OF ENTRY

INGESTION: NOT A LIKELY ROUTE OF EXPOSURE.

INHALATION: MAY CAUSE NOSE AND THROAT IRRITATION.

SKIN OR EYE CONTACT: MAY CAUSE IRRITATION OR BURNING OF THE EYES. REPEATED OR PROLONGED CONTACT MAY CAUSE SKIN IRRITATION WITH DISCOMFORT AND DERMATITIS. FOR SKIN, WASH WITH SOAP AND WATER. IF IRRITATION PERSISTS, CONSULT A PHYSICIAN. FOR EYE, FLUSH WITH WATER FOR 15 MINUTES AND GET MEDICAL ATTENTION.

CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

EXPOSURE LIMITS

"CORIAN" PRODUCTS, SILICONE SEALANT ALL COLORS

TLV (ACGIH) : None Established
PEL (OSHA) : Particulates Not Otherwise Regulated
15 mg/m³ - 8 Hr TWA - Total Dust
5 mg/m³ - 8 Hr TWA - Respirable Dust

OTHER APPLICABLE EXPOSURE LIMITS

AMORPHOUS SILICA

AEL * (Du Pont): None Established
TLV (ACGIH) : 10 mg/m³, total dust. - 8 Hr TWA
PEL (OSHA) : 6 mg/m³, total dust. - 8 Hr TWA

* AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

(HEALTH HAZARD INFORMATION - Continued)

SAFETY PRECAUTIONS

Avoid breathing dust.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Observe label precautions. Keep away from heat, sparks and flame. Close container after each use. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg. F.

FIRST AID

INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

SKIN CONTACT

The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advisable.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

No specific intervention is indicated as compound is not likely to be hazardous by ingestion. Consult physician if necessary.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PRECAUTIONS

Avoid dust generation.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Safety Glasses.
Additional : Protective footwear.
Protective Gloves: Leather or cotton

RESPIRATORY:

Do not breathe vapors. Wear a fitted organic vapor respirator unless local exhaust ventilation is adequate or air sampling show exposures are within TLV and PEL guidelines. Follow the respirator manufacturer's directions for respirator use.

VENTILATION:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable OSHA requirements and other suggested exposure limits.

(PROTECTION INFORMATION - Continued)

PROTECTIVE CLOTHING: Rubber or plastic gloves are recommended.

EYE PROTECTION: Safety glasses with side shields.

DISPOSAL INFORMATION
-----**AQUATIC TOXICITY**

No information available.

Toxicity is expected to be low based on insolubility in water.

SPILL, LEAK, OR RELEASE

NOTE: Review **FIRE AND EXPLOSION HAZARDS** and **SAFETY PRECAUTIONS** before proceeding with clean up. Use appropriate **PERSONAL PROTECTIVE EQUIPMENT** during clean up.

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Ventilate area. Remove sources of ignition. Prevent skin contact and breathing of vapor. Confine and remove with inert absorbent.

WASTE DISPOSAL

Do not flush to surface water or sanitary sewer system. Incinerate material in accordance with Federal, State/Provincial, and Local requirements. Do not incinerate in closed containers.

SHIPPING INFORMATION
-----**DOT**

Proper Shipping Name : Not regulated

STORAGE CONDITIONS

Store in cool place.

TITLE III HAZARD CLASSIFICATIONS
-----**SECTION 313 SUPPLIER NOTIFICATION**

This product contains no known toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

ADDITIONAL INFORMATION AND REFERENCES

NA = Not Applicable

NE = Not Established

= New or revised information in this section when # is in right margin.

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE: None known.

SUBSTANCES ON THE PENNSYLVANIA SPECIAL HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 0.01% OR MORE: None known.

NONHAZARDOUS INGREDIENTS PRESENT AT A CONCENTRATION OF 3% OR MORE REQUIRED TO BE LISTED BY PENNSYLVANIA: Since this product contains no hazardous substances as defined by the Pennsylvania R-T-K Regulations, a MSDS is not required by law.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): None known.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

(END OF MSDS - Continued)

Responsibility for MSDS

: F. M. LOGULLO
POLYMERS CRP711/208
WILMINGTON, DE 19880-0711
302-999-4615

End of MSDS

PARKSITE OF FLORIDA, INC.
5650 BRECKENRIDGE PARK DRIVE
SUITE 107
TAMPA, FL 33610-4232
TEL: 800-237-0229 FAX: 813-623-6860

Fax

To: Lou From: Hebbie
Fax: 407-452-3568 Pages: 6
Phone: _____ Date: 6/18/96
Re: _____ CC: _____

● Comments:

MATERIAL IDENTIFICATION

"CORIAN" JOINT ADHESIVE - COMPONENT "A"

MSDS NUMBER : COR002
CORPORATE NUMBER : DU004027

1.5 org Tube

"CORIAN" is a registered trademark of Du Pont.

Revision Date : 16-Feb-93
Date Printed : 23-Mar-93

25-110 918706
25-110-91871A

MANUFACTURER/DISTRIBUTOR

Du Pont
Polymers
1007 Market Street
Wilmington, DE 19808

PHONE NUMBERS

PRODUCT INFORMATION : 1-(800)441-7515
TRANSPORT EMERGENCY : CHEMTREC: 1-800-424-9300
MEDICAL EMERGENCY : 1-(800)441-3637

DU PONT REGISTRY NUMBER: DP313-53-5
TSCA INVENTORY STATUS : Reported/Included

COMPONENTS

Material	CAS Number	%
ACRYLIC POLYMER		
ALUMINA TRIHYDRATE	21645-51-2	
*METHYL METHACRYLATE MONOMER	80-62-6	45

* Regulated as a Toxic Chemical under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

PHYSICAL DATA

Boiling Point : 101 deg C (214 deg F) at 760 mm Hg. MM Monomer
Vapor Pressure : 29 mm Hg at 20 deg C (68 deg F)
Vapor Density : 3.42 (Air = 1.0) @16 deg C (60 deg F)
% Volatiles : 40 WT % at 20 deg C (68 deg F)
Evaporation Rate : 3.0 (Butyl Acetate = 1.0)
Water Solubility : Nil
Form : Syrupy liquid
Specific Gravity : 1.22 at 20 deg C (68 deg F)

HAZARDOUS REACTIVITY

Instability : Stable at normal temperatures and storage conditions. Avoid heat and ignition sources.
Incompatibility : Incompatible with amines and peroxides.
Decomposition : Carbon monoxide, carbon dioxide, smoke.
Polymerization : Polymerization can occur. Conditions leading to polymerization are abnormal temperatures, direct sunlight or oxidizing agents.

FIRE AND EXPLOSION DATA

Flash Point : 13 deg C (55 deg F)
Method : TOC
Flammable Limits in Air, % by Volume
LEL : 2.1
UEL : 12.5

FIRE AND EXPLOSION HAZARDS

Flammable liquid. Vapor forms explosive mixture with air. Vapors or gases may travel considerable distances to ignition source and flash back.

EXTINGUISHING MEDIA

Water Spray. Foam. Dry Chemical. CO2.

Use chemical foams for extinguishing flaming pools of material.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Evacuate personnel to a safe area. Wear self-contained breathing apparatus. Wear full protective equipment. Use water spray.

HEALTH HAZARD INFORMATION

ACRYLIC POLYMER

Repeated or prolonged liquid contact may cause skin irritation.

METHYL METHACRYLATE

HEALTH HAZARD INFORMATION

Methyl methacrylate is a skin, nose and throat irritant and can cause allergic skin rashes. Skin permeation may occur. It is a severe eye irritant and can cause tearing, blurring of vision and possible corneal damage.

Inhalation can cause headache, nausea, weakness and lung

(HEALTH HAZARD INFORMATION - Continued)

irritation with cough, and shortness of breath. Temporary sensory nervous system effects such as coldness or numbness of the extremities can occur, as well as abnormal kidney function tests and temporary elevation of blood pressure.

ANIMAL DATA

Inhalation 4 hour LC50: 7093 ppm in rats
Skin absorption LD50: > 35,500 mg/kg in rabbits
Oral LD50: 7900 mg/kg in rats

The compound is a skin irritant, is a moderate eye irritant, and is a skin sensitizer in animals.

INHALATION

Toxicity described in animals from single exposures to levels primarily in the range of 8-100 times the TLV by inhalation include upper respiratory and gastrointestinal irritation, lung damage, nervous system effects, and blood in the urine. Toxicity described in animals from repeated exposures to levels in the range of 5-100 times the TLV by inhalation include lung damage, pulmonary irritation, liver changes, eye irritation, nasal tissue changes, incoordination and upper respiratory irritation. Toxicity described in animals from long term repeated exposures by inhalation include inflammation of the nasal cavity and changes in nasal sensory cells, and slight decrease in body weight.

INGESTION

Toxicity described in animals single exposures by ingestion near the LD50 include blood in the urine and liver changes. Toxicity described in animals from repeated exposures by ingestion include liver and kidney effects with altered function in both organs, peeling of the skin and impaired locomotor activity and learning. Toxicity described in animals from long term repeated exposures by ingestion include decreased body weight, and increased relative kidney weight at high dose levels.

SKIN CONTACT

Repeated dermal exposure resulted in peeling of the skin and localized neuromuscular changes indicated by abnormal muscle responses to nerve stimulation.

Animal testing indicates that this compound does not have carcinogenic effects.

Developmental toxicity has been observed in tests with animals, but in most cases it was accompanied by maternal toxicity. In one instance reduced fetal weights were

(HEALTH HAZARD INFORMATION - Continued)

observed in the absence of maternal toxicity.

The compound does produce genetic damage in mammalian cell cultures. It does not produce heritable genetic damage in animals.

HUMAN HEALTH EFFECTS

Skin contact may include skin irritation with rash; or allergic skin rashes.

Eye contact may include severe eye irritation with tearing, or blurring of vision, or possible corneal damage.

Inhalation may include irritation of the upper respiratory passages; nonspecific discomfort, such as nausea, headache, or weakness; temporary lung irritation effects with cough, difficulty breathing, or shortness of breath; temporary sensory nervous system effects such as coldness or numbness of extremities; abnormal kidney function as detected by laboratory tests; or temporary elevation of blood pressure.

Evidence from animal tests suggests that skin permeation may occur. The compound may cause skin sensitization in susceptible humans.

Individuals with preexisting diseases of the lungs may have increased susceptibility to the toxicity of excessive exposures.

ALUMINA TRIHYDRATE**HEALTH HAZARD INFORMATION**

No adverse effects are expected as the compound has been used safely as an antacid in humans without significant effects for a long period of time. Chronic over-use may interfere with phosphate absorption.

ANIMAL DATA**INHALATION**

Guinea pigs exposed by long term, repeated inhalation exhibited no evidence of injurious effects but did show progressive accumulation of aluminum in the lungs.

INGESTION

Toxicity described in animals from repeated ingestion include growth impairment, and bone changes due to phosphate depletion but ingestion of phosphate eliminates these changes.

(HEALTH HAZARD INFORMATION - Continued)

CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

APPLICABLE EXPOSURE LIMITS
METHYL METHACRYLATE MONOMER

AEL * (Du Pont): None Established
TLV (ACGIH) : 100 ppm, 410 mg/m³ - 8 Hr TWA
PEL (OSHA) : 100 ppm, 410 mg/m³ - 8 HR TWA

- * AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SAFETY PRECAUTIONS

Do not breathe vapor or mist. Do not get in eyes. Avoid contact with skin. Avoid contact with clothing. Wash thoroughly after handling. Wash clothing after use.

FIRST AID

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Moderate Toxicity

SKIN CONTACT

In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

NOTES TO PHYSICIAN

Activated charcoal slurry may be administered.
To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly.
Administer 5mL/kg, or 350mL for an average adult.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PRECAUTIONS

Keep away from heat, sparks and flames. Keep container in a cool place. Keep container in a dark place. Keep container tightly closed. Use of non-sparking and explosion-proof equipment may be necessary depending on type of operation. Do not consume food, drink or tobacco in the areas where they may become contaminated with this material.

Use local exhaust ventilation to keep employee exposure to airborne concentrations below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Coverall chemical splash goggles.
Additional : Polyethylene apron,
Protective Gloves: Rubber gloves, or disposable polyethylene

DISPOSAL INFORMATION

SPILL, LEAK, OR RELEASE

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

WASTE DISPOSAL

Cleaned-up material is a RCRA Hazardous Waste. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. Do not incinerate in closed containers.

RCRA hazardous waste number is D001.

SHIPPING INFORMATION

DOT

Proper Shipping Name : Not regulated.

STORAGE CONDITIONS

Store below 80 deg F. Store in well ventilated area. Store in cool place. Store in dark place. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

TITLE III HAZARD CLASSIFICATIONS

Acute : Yes
Chronic : Yes
Fire : Yes
Reactivity : Yes
Pressure : No

ADDITIONAL INFORMATION AND REFERENCES

NA = Not Applicable
NE = Not Established

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES): Methyl Methacrylate.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS):

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : F. M. LOGULLO
DU PONT POLYMERS
CHESTNUT RUN PLAZA 715/215
WILMINGTON, DE 19880-0715
302-999-4615

Indicates updated section.

End of MSDS

MATERIAL IDENTIFICATION

"CORIAN" JOINT ADHESIVE - COMPONENT "B"

MSDS NUMBER : COR003
CORPORATE NUMBER : DU004028

"CORIAN" is a registered trademark of Du Pont.

Revision Date : 24-Mar-92
Date Printed : 23-Mar-93

MANUFACTURER/DISTRIBUTOR

Du Pont
Polymers
1007 Market Street
Wilmington, DE 19808

PHONE NUMBERS

PRODUCT INFORMATION : 1-(800)441-7575
TRANSPORT EMERGENCY : CHEMTREC: 1-800-424-9300
MEDICAL EMERGENCY : 1-(800)441-3637

DU PONT REGISTRY NUMBER: DP313-54-6
TSCA INVENTORY STATUS : Reported/Included

COMPONENTS

Material	CAS Number	%
*BENZOYL PEROXIDE	94-36-0	10
*DIBUTYL PHTHALATE	84-74-2	90

* Regulated as a Toxic Chemical under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR part 372.

PHYSICAL DATA

Vapor Pressure : <3 mm Hg at 20 deg C (68 deg F)
% Volatiles : 0 WT %
Evaporation Rate : None
Water Solubility : <0.03 g/liter
Form : Liquid
Specific Gravity : 1.044 at 20 deg C

HAZARDOUS REACTIVITY

Instability : Stable at normal temperatures and storage conditions. Avoid heat, high temperatures, and ignition sources.

Incompatibility : Incompatible with heat and oxidizing materials, strong acids.

Decomposition : Decomposes with heat. Hazardous gases/vapors produced are carbon monoxide, carbon dioxide, smoke.

Polymerization : Polymerization will not occur.

FIRE AND EXPLOSION DATA

Flash Point : >93 deg C (>200 deg F)
Method : TCC

Slight fire hazard when exposed to heat or flame.

FIRE AND EXPLOSION HAZARDS

Heating can release vapors which can be ignited.

EXTINGUISHING MEDIA

Water. Dry Chemical. CO2.

SPECIAL FIRE FIGHTING INSTRUCTIONS

Evacuate personnel to a safe area. Keep personnel removed & upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Cool tank/container with water spray. Isolate area.

HEALTH HAZARD INFORMATION

DIBUTYL PHTHALATE

HEALTH HAZARD INFORMATION

This compound is a skin, eye, nose and throat irritant.

Ingestion may cause nausea, headache and weakness.

High exposures may cause dizziness, confusion, incoordination and loss of consciousness. Abnormal liver and kidney function may occur.

ANIMAL DATA

Inhalation 2 hour LC50: 25 mg/L in rats
Skin absorption LD50: - 21,000 mg/kg in rabbits
Oral LD50: 8000 mg/kg in rats

(HEALTH HAZARD INFORMATION - Continued)

CARCINOGENICITY

None of the components in this material is listed by IARC, NTP, OSHA, or ACGIH as a carcinogen.

APPLICABLE EXPOSURE LIMITS
BENZOYL PEROXIDE

AEL * (Du Pont): None Established
TLV (ACGIH) : 5 mg/m³ - 8 Hr TWA
PEL (OSHA) : 5 mg/m³ - 8 Hr TWA

DIBUTYL PHTHALATE

AEL * (Du Pont): 5 mg/m³ - 8 Hr. TWA
TLV (ACGIH) : 5 mg/m³ - 8 Hr TWA
PEL (OSHA) : 5 mg/m³ - 8 Hr TWA

- * AEL is Du Pont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

SAFETY PRECAUTIONS

Avoid breathing vapors or mist. Avoid contact with eyes, skin, or clothing. Wash thoroughly after handling. Wash clothing after use.

FIRST AID

INHALATION

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician. Moderately Toxic

SKIN CONTACT

Flush skin with water after contact. Wash contaminated clothing before reuse.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

INGESTION

If swallowed, do not induce vomiting. Immediately give two glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

NOTES TO PHYSICIAN

Activated charcoal slurry may be administered.
To prepare activated charcoal slurry, suspend 50 grams activated charcoal in 400mL water and mix thoroughly.
Administer 5mL/kg, or 350mL for an average adult.

(HEALTH HAZARD INFORMATION - Continued)

The compound is a skin and eye irritant, but is not a skin sensitizer in animals.

Inhalation: The effects in animals from single exposure by inhalation include mucous membrane and eye irritation, body weight loss, increased red blood cell counts, and other nonspecific effects. Repeated exposures caused lung and liver effects. Long term exposures resulted in decreased body weight gain, increased brain and lung weights, and changes in clinical chemical parameters.

Skin: Repeated skin applications caused testicular atrophy, dermatitis, kidney changes and weight loss.

Ingestion: Toxicity described in animals from the administration of single high doses include damage of the gastrointestinal tract, muscular incoordination, immobility, difficult respiration, eye lid edema and conjunctivitis. Repeated dosing at high levels caused liver, kidney, testicular and stomach injury, and decreased growth rate. Long term dosing at lower levels caused no adverse changes.

Tests in animals demonstrate no carcinogenic activity. Tests in some animals indicate that the compound may have developmental and reproductive toxicity at very high doses.

The compound does produce genetic damage in bacterial cultures but not in mammalian cell cultures. It has not been tested in animals.

HUMAN HEALTH EFFECTS

Skin contact may include skin irritation with rash.

Eye contact may include eye irritation with tearing, or blurring of vision.

Inhalation may include irritation of the upper respiratory passages, with coughing.

Ingestion may include nonspecific discomfort, such as nausea, headache, or weakness.

Higher exposures may lead to temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness; or abnormal liver and kidney function as detected by laboratory tests.

PROTECTION INFORMATION

GENERALLY APPLICABLE CONTROL MEASURES AND PRECAUTIONS

Keep away from heat, sparks and flames. Keep container in a cool place. Keep container in a dark place. Keep container tightly closed. Close container after each use. Do not consume food, drink or tobacco in the areas where they may become contaminated with this material.

Use local exhaust ventilation to keep employee exposure to airborne concentrations below recommended exposure limits.

PERSONAL PROTECTIVE EQUIPMENT

Eye/Face : Coverall chemical splash goggles.
Additional : Polyethylene apron
Protective Gloves: Rubber Gloves or disposable polyethylene

DISPOSAL INFORMATION

SPILL, LEAK, OR RELEASE

NOTE: Review FIRE AND EXPLOSION HAZARDS and SAFETY PRECAUTIONS before proceeding with clean up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Remove source of heat, sparks, flame, impact, friction or electricity. Dike spill. Prevent liquid from entering sewers, waterways or low areas. Soak up with sawdust, sand, oil dry or other absorbent material. Shovel or sweep up.

WASTE DISPOSAL

Cleaned-up material is a RCRA Hazardous Waste. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations. Do not flush to surface water or sanitary sewer system. Do not incinerate in closed containers.

RCRA hazardous waste number is U069.

SHIPPING INFORMATION

DOT

Proper Shipping Name : Not Regulated

STORAGE CONDITIONS

Store in well ventilated area. Store in cool place. Store in dark place. Keep container tightly closed. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

TITLE III HAZARD CLASSIFICATIONS

Acute : Yes
Chronic : Yes
Fire : No
Reactivity : Yes
Pressure : No

ADDITIONAL INFORMATION AND REFERENCES

NA = Not Applicable
NE = Not Established

STATE RIGHT-TO-KNOW LAWS

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated. While we do not specifically analyze these products, or the raw materials used in their manufacture, for substances on various state hazardous substances lists, to the best of our knowledge the products on this Material Safety Data Sheet contain no such substances except for those specifically listed below:

SUBSTANCES ON THE PENNSYLVANIA HAZARDOUS SUBSTANCES LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.01% FOR SPECIAL HAZARDOUS SUBSTANCES): Benzoyl Peroxide 10%; Dibutyl Phthalate 90%.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER: None known.

WARNING: SUBSTANCES KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM: None known.

SUBSTANCES ON THE NEW JERSEY WORKPLACE HAZARDOUS SUBSTANCE LIST PRESENT AT A CONCENTRATION OF 1% OR MORE (0.1% FOR SUBSTANCES IDENTIFIED AS CARCINOGENS, MUTAGENS OR TERATOGENS): Benzoyl Peroxide 10%; Dibutyl Phthalate 90%.

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS : F. M. LOGULLO
DU PONT POLYMERS
CHESTNUT RUN PLAZA 715/215
WILMINGTON, DE 19880-0715
302-999-4615

Indicates updated section.

End of MSDS

PARKSITE OF FLORIDA, INC.
5650 BRECKENRIDGE PARK DRIVE
SUITE 107
TAMPA, FL 33610-4232
TEL: 800-237-0229 FAX: 813-623-6860

Fax

To: *Jim* From: *N. Khan*
Fax: *407-452-3565* Pages:
Phone: Date: *6-21-96*
Re: CC:

● Comments:

945980

Essex Specialty Products, Inc.
A Subsidiary of The Dow Chemical Company

1250 Harmon Road
Auburn Hills, MI 48326
810-391-6300
Fax: 810-391-6417

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Page: 1

24-HOUR EMERGENCY PHONE NUMBER: 248-391-6300

Product: BETASEAL** 43518 GLASS PRIMER

Product Code: 15964

Effective Date: 10/21/97 Date Printed: 02/04/98 MSD: 005622

Essex Specialty Products, Inc. 1250 Harmon Rd, Auburn Hills MI 48326

CUSTOMER INFORMATION CENTER: 248-391-6300

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component(s)	CAS#	Amount (wt % or ppm)
Toluene	000108-88-3	45-60
Methyl alcohol	000067-56-1	40-55

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

 * Colorless liquid. Solvent odor. Flammable. Causes eye *
 * irritation. Harmful if inhaled. Harmful if absorbed through *
 * skin. Harmful if swallowed. *

POTENTIAL HEALTH EFFECTS (See Section 11 for toxicological data.)

This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

EYE: May cause moderate irritation with corneal injury. Vapors may irritate eyes.

SKIN: Prolonged or repeated exposure may cause skin irritation. A single prolonged exposure may result in the material being absorbed in harmful amounts. repeated skin exposure may result in absorption of harmful amounts. Effect from skin absorption of methanol are the same as those observed via oral and inhalation exposure and include central nervous system depression, visual impairment up to blindness, and metabolic acidosis with effects on organ systems such as the liver, kidney and heart. Skin absorption of the organosilane component has caused kidney/

(Continued on page 2 , over)

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Product: BETASEAL** 43518 GLASS PRIMER
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Date Printed: 02/04/98

MSD: 005622

bladder effects when tested in laboratory animals.

INGESTION: Small amounts swallowed incidental to normal handling operations are not likely to cause injury; however, swallowing amounts larger than that may cause serious injury, even death. Methanol, a component in this mixture, is highly toxic to humans and may cause central nervous system effects, visual disturbances up to blindness, metabolic acidosis, and degenerative damage to other organs including liver, kidney, and heart. Effects may be delayed. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects. If aspirated (liquid enters the lung), may cause lung damage or even death due to chemical pneumonia. The lethal dose in humans for methanol is approximately 1-8 ounces (29-237 ml).

INHALATION: Excessive vapor concentrations are readily attainable and may cause serious adverse effects, even death. Excessive exposure may cause irritation to upper respiratory tract and lungs. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects, central nervous system effects, and/or abdominal cramps and/or diarrhea. Inhalation of methanol may cause effects ranging from headache, narcosis and visual impairment to metabolic acidosis, blindness, and even death. Effects may be delayed. Alcohol consumption and exertion may increase the adverse effects of toluene. Signs and symptoms of excessive exposure may include tingling, numbness and pain in the hands and forearms.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Signs and symptoms of excessive exposure may be central nervous system effects. Excessive exposure may cause neurologic signs and symptoms and/or upper respiratory tract irritation. Toluene has caused hearing loss in laboratory animals upon exposure to high concentrations. Intentional misuse by deliberately inhaling toluene may cause nervous system damage, hearing loss, liver and kidney effects and death. Repeated excessive exposures may cause blindness, gastric distress and headaches.

CANCER INFORMATION: Components methanol and toluene did not cause cancer in long-term animals studies.

TERATOLOGY (BIRTH DEFECTS): Methanol has caused birth defects in mice at doses nontoxic to the mother as well as slight behavioral effects in offspring of rats. Toluene has been toxic to the fetus in laboratory animals at doses toxic to the mother, and has caused birth defects in mice dosed orally but not by inhalation.

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REPRODUCTIVE EFFECTS: Contains toluene, which did not interfere with reproduction in animal studies. No relevant information found on other components (s).

4. FIRST AID

EYE: Irrigate with flowing water immediately and continuously for 15 Minutes.

SKIN: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Call a physician if irritation persists. Wash clothing before reuse. Destroy contaminated shoes.

INGESTION: DO NOT INDUCE VOMITING. Call a physician and/or transport to emergency facility immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

NOTE TO PHYSICIAN: The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient. In cases where significant quantities have been ingested, consider the use of ethanol and hemodialysis in the treatment. Consult standard literature for details of treatment.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASH POINT: 27 F

METHOD USED: Setaflash

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus.

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Product: BETASEAL** 43518 GLASS PRIMER
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UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel along the ground or by ventilation duct to ignition sources far from material handling point. Flammable.

6. ACCIDENTAL RELEASE MEASURES (See Section 15 for Regulatory Information)

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Secure ignition sources. Wear protective equipment. Dike, if necessary to prevent spread of spill. Cover and contain spill with absorbent material. Pump diked material and scoop absorbed material into container(s) for disposal. Use non-sparking tools.

7. HANDLING AND STORAGE

HANDLING & STORAGE: Flammable. Keep from heat, sparks, and flame. Use appropriate grounding equipment while handling this material. Store indoors in tightly closed containers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions with high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. emergency conditions may require additional precautions.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. lethal concentrations may exist in areas with poor ventilation.

PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: Use chemical goggles. If vapor exposure causes eye discomfort. Use a full-face respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full body suit will depend on operation. Safety shower should be located in immediate area. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse. Contaminated leather items, such as shoes, belts and watchbands, should be removed and destroyed.

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Product: BETASEAL** 43518 GLASS PRIMER
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RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved positive-pressure supplied-air respirator. For emergency and other conditions where the exposure guidelines may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply. In confined or poorly ventilated areas, use an approved positive-pressure supplied-air respirator.

EXPOSURE GUIDELINES: Toluene: ACGIH TLV is 50 ppm TWA, skin. OSHA PEL is 100 ppm TWA, 150 ppm STEL.

METHYL ALCOHOL (METHANOL): ACGIH TLV and OSHA PEL are 200 ppm TWA, 250 ppm STEL.

PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

A "SKIN" notation following the exposure guideline refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposure should be considered.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE/PHYSICAL STATE: Colorless liquid.

ODOR: Solvent odor.

VAPOR PRESSURE: 80

VAPOR DENSITY: 1.7

BOILING POINT: 111 F

SOLUBILITY IN WATER/MISCIBILITY: Negligible.

SPECIFIC GRAVITY: 0.83 (+/-0.03)

VOLATILE ORGANIC COMPOUNDS (VOC) (LBS/GAL): 6.94
EPA Method 24 Procedure B

10. STABILITY AND REACTIVITY

(Continued on page 6, over)

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Product: BETASEAL** 43518 GLASS PRIMER
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CHEMICAL STABILITY: Stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Strong oxidizers.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide,
Smoke, fumes.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION (See Section 3 for Potential Health Effects. For detailed toxicological data, write or call the address or non-emergency number shown in Section 1)

MUTAGENICITY: The majority and most reliable of many mutagenicity studies done on toluene, both in vitro (test tube) and in animal indicate it is not mutagen.

In vitro studies on methanol have been negative.

12. ECOLOGICAL INFORMATION (For detailed Ecological data, write or call the address or non-emergency number shown in Section 1)

For detailed ecological data, write or call the Dow Chemical company.

13. DISPOSAL CONSIDERATIONS (See Section 15 for Regulatory Information)

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER.

All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterization and compliance with applicable law are the responsibility solely of the waste generator.

ESSEX SPECIALTY PRODUCTS, INC. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL.

THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCTS AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION

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M A T E R I A L S A F E T Y D A T A S H E E T

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2 (Composition/Information On Ingredients).

14. TRANSPORT INFORMATION

U.S. DOT CLASSIFICATION/DESCRIPTION: For dot regulatory information, if required, consult transportation regulations or product shipping papers.

15. REGULATORY INFORMATION (Not meant to be all-inclusive--selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

CHEMICAL NAME	CAS NUMBER	CONCENTRATION		
METHANOL	000067-56-1	40	-55	%
TOLUENE	000108-88-3	45	-60	%

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard
A fire hazard

TOXIC SUBSTANCES CONTROL ACT (TSCA):

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M A T E R I A L S A F E T Y D A T A S H E E T

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REGULATORY INFORMATION (CONTINUED)

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

STATE RIGHT-TO-KNOW: The following product components are cited on certain state lists as mentioned. Non-listed components may be shown in the composition section of the MSDS.

CHEMICAL NAME	CAS NUMBER	LIST
METHANOL	000067-56-1	NJ1 NJ2 NJ3 PA1 PA3
TOLUENE	000108-88-3	NJ1 NJ2 NJ3 PA1 PA3

NJ1=New Jersey Special Health Hazard Substance (present at greater than or equal to 0.1%).

NJ2=New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%).

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

OSHA HAZARD COMMUNICATION STANDARD:

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA, or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:
Category:

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Product: BETASEAL** 43518 GLASS PRIMER
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REGULATORY INFORMATION (CONTINUED)

Chemical Name	CAS#	RQ	% in Product
Methanol	000067-56-1	5000 lbs	40-55
Toluene	000108-88-3	1000 lbs	45-60

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is:

Refer elsewhere in the MSDS for specific warnings and safe handling information. Refer to the employer's workplace education program.

CPR STATEMENT: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

HAZARDOUS PRODUCTS ACT INFORMATION: This product contains the following ingredients which are Controlled Products and/or on the Ingredient Disclosure List (Canadian HPA section 13 and 14):

COMPONENTS:	CAS #	AMOUNT (%w/w)
METHANOL	000067-56-1	40-55
TOLUENE	000108-88-3	45-60

16. OTHER INFORMATION

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 A Subsidiary of The Dow Chemical Company
 The Information Herein Is Given In Good Faith, But No Warranty,
 Express Or Implied, Is Made. Consult Essex Specialty
 Products, Inc. For Further Information.

BETASEAL* 43520A
Glass Primer

1 qt
30 cc bottle
15-80
#945998

Performance Properties - Primer

Description

BETASEAL* 43520A glass primer is a polyurethane based solvent release type primer. This black-out primer is suitable for use to screen out ultraviolet rays and to promote adhesion between polyurethane adhesive and glass.

Typical Applications

As an integral component of a BETASEAL Bonding System, BETASEAL 43520A is used for priming applications which include windshield installation and backlite bonding in automotive trucks, buses and off-road vehicles.

Application Technique

BETASEAL 43520A must be agitated prior to use. The primer is capable of being applied by means of a brush or other suitable applicator. A wet film of 3-5 mils must be applied to assure the necessary .3-1 dry mil coating. The primer shall be allowed to air-dry to a tack-free condition prior to urethane adhesive application. Provided that the primer surface is kept clean, sealant may be applied within 96 hours.

Physical Properties

Color	Black
Weight/Volume, Lbs./Gal.	8.2 ± 0.30
Kgs./Liter	0.98 ± 0.04
Flash point °F	24
°C	- 6
Solids Content, Minimum, %	35

Brushability	No voids, bare spots or brush marks.
Hiding Power	Complete black-out
Open Time Minimum, seconds	30
Maximum, hours	96
Viscosity, Initial, R.T. #4 Ford Cup, Seconds	15 ± 4
Viscosity, after 72 hours at 54 ± 3°C, (after minimum of 1 hour recovery to R.T.) #4 Ford Cup, maximum, seconds	25

**Performance Properties
Bonding System**

Shear Adhesion, after 72 hours R.T.	100% cohesive bond to substrate of approved urethane adhesive which typically results in minimum values of 1.7 MPa or 250 psi.
Cold Impact	No loss of adhesion.
Vibration Testing	Samples shall withstand without loss of adhesion to appropriate substrate and urethane adhesive a total of 900,000 cycles.
Sandwich Pull Strength, after 3 hours R.T.	100% cohesive bond to substrate of approved urethane adhesive which typically results in minimum values of 0.25MPa or 36 psi.

Mike Greco
Essex - Dow

1-810-391-6329

F 1-810-391-6393



*** MATERIAL SAFETY DATA SHEET ***

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: Essex Specialty Products, Inc.*
 ADDRESS: 1250 Harmon Road
 Auburn Hills, MI 48326

EMERGENCY TELEPHONE NUMBER: (810) 391-6300 / CHEMTREC: (800) 424-9300 TO BE USED ONLY IN
 EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK,
 FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

TELEPHONE NUMBER FOR INFO: (810) 391-6300 Mon./Fri. 8 AM-4 PM EST

PRODUCT NAME: Betaseal® 43520A Glass Primer

SYNONYM(S): U-402 Glass Primer #2

MSD NUMBER: 0501.00

EFFECTIVE DATE: 04-04-96 DATE PRINTED:

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

<u>COMPONENTS</u>	<u>CAS #</u>	<u>AMOUNT</u> <u>(wt %)</u>	
Toluene	000108-88-3	5-15	10% 40%
Methyl ethyl ketone	000078-93-3	35-45	
Carbon black	001333-86-4	-----	
n-Butyl acetate	000123-86-4	< 6	6%
Polyisocyanate polymer	Proprietary	-----	

SECTION III - HAZARDS IDENTIFICATION

(See Section XI for toxicological data.)

EMERGENCY OVERVIEW

 * Black liquid. Toluene/ketone odor. Flammable. *
 * Causes eye irritation. Can cause allergic skin reaction. *
 *

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 * A subsidiary of The Dow Chemical Company

POTENTIAL HEALTH EFFECTS

This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

EYES: May cause pain. May cause moderate eye irritation. May cause moderate corneal injury. Vapors may irritate eyes. Vapors may cause lacrimation (tears).

SKIN: Short single exposure not likely to cause significant skin irritation. Prolonged or repeated exposure may cause moderate skin irritation. Repeated contact may cause drying or flaking of skin. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. May cause allergic skin reaction in susceptible individuals. May stain skin.

INGESTION: Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury. If aspirated (liquid enters the lung), may cause lung damage or even death due to chemical pneumonia.

INHALATION: Excessive vapor concentrations are attainable and could be hazardous on single exposure. Excessive exposure to solvent(s) may cause respiratory irritation and central nervous system depression. Signs and symptoms of central nervous system depression, in order of increasing exposure, are headache, dizziness, drowsiness, and incoordination. Signs and symptoms of excessive exposure may be nausea and/or vomiting. Alcohol consumed before or after exposure may increase adverse effects. Contains small amounts of isocyanate homo-/prepolymers. Excessive isocyanate exposure may cause respiratory effects including irritation, sensitization, and lung injury (decreased ventilatory capacity). Extremely low isocyanate concentrations may cause allergic reactions in individuals who have been sensitized by previous isocyanate exposures. Symptoms may include difficult breathing, chest tightness and coughing. Allergic response may be immediate or delayed.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS

Excessive exposure may cause irritation to upper respiratory tract. Signs and symptoms of excessive exposure may be central nervous system effects. Excessive exposure may cause neurologic signs and symptoms. Contains component(s) which, in animals, have been shown to cause liver, kidney, and spleen effects. Toluene has caused hearing loss in laboratory animals upon exposure to high concentrations. Intentional misuse by deliberately inhaling toluene may cause nervous system damage, hearing loss, liver and kidney effects and death.

CANCER INFORMATION

Contains toluene and butyl acetate, which did not cause cancer in laboratory animals.

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PRODUCT NAME: Betaseal® 43520A Glass Primer

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TERATOLOGY (BIRTH DEFECTS)

Contains methyl ethyl ketone and butyl acetate, which did not cause birth defects; other fetal effects occurred only at doses toxic to the mother.

Toluene has been toxic to the fetus in laboratory animals at doses toxic to the mother, and has caused birth defects in mice dosed orally but not by inhalation.

REPRODUCTIVE EFFECTS

Contains toluene, which did not interfere with reproduction in animal studies. No relevant information found on other component(s).

SECTION IV - FIRST-AID MEASURES

EYES: Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.

SKIN: Wash off in flowing water or shower.

INGESTION: Do not induce vomiting. Call a physician and/or transport to emergency facility immediately.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

NOTE TO PHYSICIAN

The decision of whether to induce vomiting or not should be made by an attending physician. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach.

May cause respiratory sensitization or asthma. Bronchodilators, expectorants, and antitussives may be of help.

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

May cause respiratory sensitization. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed for 48 hours for signs of respiratory distress.

SECTION V - FIRE FIGHTING MEASURES

FLASH POINT: 24° F. **METHOD USED:** Setaflash

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam.
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SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel along the ground or by ventilation duct to ignition sources far from material handling point. **FLAMMABLE.**

SECTION VI - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Secure ignition sources. Wear protective equipment. Dike, if necessary to prevent spread of spill. Cover and contain spill with absorbent material. Pump diked material and scoop absorbed material into container(s) for disposal. Use non-sparking tools.

SECTION VII - HANDLING AND STORAGE

HANDLING & STORAGE: **FLAMMABLE.** Keep from heat, sparks and flame. Use appropriate grounding equipment while handling this material. Store indoors in tightly closed containers.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Use only with adequate ventilation.

EYE/FACE PROTECTION: Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

SKIN PROTECTION: Wear clean, long-sleeved, body-covering clothing. Use gloves impervious to this material.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration. For emergency and other conditions where the exposure guideline may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air

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supply. In confined or poorly ventilated areas, use an approved positive-pressure supplied-air respirator.

EXPOSURE GUIDELINES: Methyl ethyl ketone (2-butanone): ACGIH TLV and OSHA PEL are 200 ppm TWA, 300 ppm STEL.

Toluene: ACGIH TLV is 50 ppm TWA, skin. OSHA PEL is 100 ppm TWA, 150 ppm STEL.

n-Butyl acetate: ACGIH TLV and OSHA PEL are 150 ppm TWA, 200 ppm STEL.

PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

A "skin" notation following the exposure guideline refers to the potential for dermal absorption of the material. It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

Although some of the fillers used in this product may have exposure guidelines, no exposure would be expected under normal handling conditions because of the physical state of the material.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VOC (LBS/GAL): 4.81

EPA Method 24 Procedure 8

4.81 / 8.2 =

SPECIFIC GRAVITY: 0.99 (+/-0.03)

BOILING POINT: 130° F.

VAPOR PRESSURE (mmHg): N/A

EVAPORATION RATE: N/A

VAPOR DENSITY (AIR=1): > 1

SOLUBILITY IN WATER: Negligible

APPEARANCE AND ODOR: Black liquid. Toluene/ketone odor.

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers

HAZARDOUS

DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, smoke, fumes

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HAZARDOUS POLYMERIZATION: Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

(See Section III for Potential Health Effect. For detailed toxicological data write or call The Dow Chemical Company.)

ACUTE

Skin: The dermal LD50 has not been determined.

Ingestion: Single dose oral LD50 has not been determined.

MUTAGENICITY: The majority of the many mutagenicity studies, both in vitro and in animals, on components methyl ethyl ketone and toluene were negative. In vitro studies on butyl acetate and one of the isocyanate components were negative.

SECTION XII - ECOLOGICAL INFORMATION

(For detailed ecological data, write or call The Dow Chemical Company.)

SECTION XIII - DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in compliance with all applicable federal, state/provincial and local statutes regarding the management, use, handling, treatment, storage, disposal, and transportation of hazardous wastes. Customers having compliance questions should contact their local, state/provincial or federal environmental agency.

SECTION XIV - TRANSPORTATION INFORMATION

U.S. DOT CLASSIFICATION/DESCRIPTION: For DOT regulatory information, if required, consult transportation regulations or product shipping papers.

SECTION XV - REGULATORY INFORMATION

(Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

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U.S. REGULATIONS:

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard 29CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

<u>Chemical Name</u>	<u>CAS#</u>	<u>% in Product</u>	<u>RQ (LBS)</u>
Toluene	000108-88-3	5-15	1000
Methyl ethyl ketone (2-butanone)	000078-93-3	35-45	5000

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard
A fire hazard

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III or the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Chemical Name</u>	<u>CAS#</u>	<u>% in Product</u>
Toluene	000108-88-3	5-15
Methyl ethyl ketone (2-butanone)	000078-93-3	35-45

STATE RIGHT-TO-KNOW: The following product components are cited on certain state list as mentioned. Non-listed components may be shown in the composition section of the MSDS.

<u>Chemical Name</u>	<u>CAS#</u>	<u>LIST</u>
Toluene	000108-88-3	NJ1 NJ2 NJ3 PA1 PA3
Methyl ethyl ketone (2-butanone)	000078-93-3	NJ2 NJ3 PA1 PA3
n-Butyl acetate	000123-86-4	NJ1 NJ3 PA1 PA3
Carbon black	001333-86-4	NJ3 PA1

NJ1=New Jersey Special Health Hazard Substance (present at greater than or equal to 0.1%).

NJ2=New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%).

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

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CALIFORNIA PROP 65: This product contains a chemical(s) known to the State of California to cause reproductive toxicity.

The chemical(s) is/are: Toluene.

SELECTED INTERNATIONAL REGULATIONS:

CANADIAN REGULATIONS: This product contains the following ingredients which are on Canada's Hazardous Ingredients List (WHMIS) in concentrations at or above the threshold.

<u>Chemical Name</u>	<u>CAS#</u>
Toluene	000108-88-3
Methyl ethyl ketone (2-butanone)	000078-93-3
n-Butyl acetate	000123-86-4
Carbon black	001333-86-4

SECTION XVI - OTHER INFORMATION

None

The information herein is given in good faith, but no warranty, expressed or implied is made. Consult Essex Specialty Products, Inc. for further information.

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30 cc
bottle

15-80

#946004

BETASEAL* 43532 Body Primer

Description

BETASEAL* 43532 is a polyurethane based, methylene chloride free, solvent evaporation, moisture cure type primer. After application to a substrate, this primer has a tendency to drip less than standard primers. BETASEAL 43532 is recommended for use as an adhesion promoter between BETASEAL Urethane Adhesives and automotive paint coatings.

Typical Applications

BETASEAL 43532 primer is an integral component of a BETASEAL bonding system. Its suggested use is priming coated automotive body flanges (pinch welds) before the application of a BETASEAL adhesive.

Application Techniques

BETASEAL 43532 must be agitated prior to use. Recommended minimum agitation times are:

- Shaker (1 cycles/sec), minutes 60
- Roller (28 RPM), hours 8

The primer can be applied by using pressurized dispensing (stream or spray) equipment, pad, brush, or other suitable applicator. A wet film thickness of 3 to 5 mils (0.003 to 0.005 inch) should be achieved. Allow the BETASEAL 43532 to dry at room temperature for a minimum of 30 minutes before applying a BETASEAL adhesive. If the primed surface is clean (free of oil, dirt or dust), adhesive can be applied for up to 110 hrs after the primer has dried. After 110 hours, as long as the primed surface is not oily or dirty, the surface should be reprimed. If the surface is contaminated, wipe it with a clean rag wet with acetone or methyl ethyl ketone. Allow to dry and reprime. Only one reprime operation should be conducted.

Physical Properties

Color	Black
Weight/Volume at RT	
Lbs./Gal.	8.5 ± 0.5
Kgs./Liter	1.00 ± 0.06
Flash Point °C (°F)	-11 (12)
Solids%	48.0 ± 5.0

Performance Properties - Primer

Brushability	Easily applied with no voids, bare spots or brush marks.
Open Time at RT	
Minimum, Mins.	30
Maximum, Hrs.	110
Hiding Power	Complete black out
Room Temperature Viscosity	
Ford # 4 Cup, initial, secs.	23.0 ± 6.0
After 72 hrs. at 54 ± 3°C, secs.	35 max

Performance Properties Bonding Systems

Shear Adhesion, after 72 hours R.T.	100% cohesive bond to substrate of approved urethane adhesive which typically results in minimum values of 1.7 MPa or 250 psi.
Cold Impact	No loss of adhesion.
Vibration Testing	Samples shall withstand without loss of adhesion to appropriate substrate and urethane adhesive a total of 900,000 cycles.
Sandwich Pull Strength, after 3 hours R.T.	100% cohesive bond to substrate of approved urethane adhesive which typically results in minimum values of 0.25MPa or 36 psi.

* MATERIAL SAFETY DATA SHEET *

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: Essex Specialty Products, Inc.*
 ADDRESS: 1250 Harmon Road
 Auburn Hills, MI 48326

EMERGENCY TELEPHONE NUMBER: (810) 391-6300 / CHEMTREC: (800) 424-9300 TO BE USED ONLY IN
 EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK,
 FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

TELEPHONE NUMBER FOR INFO: (810) 391-6300 Mon./Fri. 8 AM-4 PM EST

PRODUCT NAME: Betaseal® 43532 Body Primer

SYNONYM(S): U-413 Pinchweid Primer #3

MSD NUMBER: 0502.00

EFFECTIVE DATE: 04-10-96 DATE PRINTED:

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS #	AMOUNT (wt. %)
Methyl ethyl ketone	000078-93-3	40-50 45% ^o
Talc	014807-96-6	-----
Carbon black	001333-86-4	-----
Acetone	000067-64-1	10-20 15% ^o
Silica, crystalline	014808-60-7	< 0.2
Polymethylene polyphenyl isocyanate containing methylene bisphenyl isocyanate (MDI)	009016-87-9 000101-68-8 *	15-25 3-5

* Free MDI (CAS# 101-68-8) = 3.87%

SECTION III - HAZARDS IDENTIFICATION

(See Section XI for toxicological data.)

EMERGENCY OVERVIEW

 *
 * Black liquid. Ketone odor. Extremely flammable. Causes eye irritation. *
 * *
 * May cause allergic respiratory reaction. May cause allergic skin reaction. *
 * *
 * Toxic fumes released in fire situations. *

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POTENTIAL HEALTH EFFECTS

This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

EYES: May cause moderate eye irritation. May cause moderate corneal injury. Vapors may irritate eyes.

SKIN: Prolonged or repeated exposure may cause moderate skin irritation. Repeated contact may cause drying or flaking of skin. Skin contact may result in allergic skin reactions or respiratory sensitization but is not expected to result in absorption of amounts sufficient to cause other adverse effects. May stain skin.

INGESTION: Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

INHALATION: Excessive vapor concentrations are attainable and could be hazardous on single exposure. Excessive exposure may cause respiratory irritation and central nervous system depression. Signs and symptoms of central nervous system depression, in order of increasing exposure, are headache, dizziness, drowsiness, and incoordination. Signs and symptoms of excessive exposure may be nausea and/or vomiting. May cause respiratory sensitization in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Impaired lung function (decreased ventilatory capacity) has been associated with overexposure to isocyanates. Potential for exposure to MDI is minimal. Representative monitoring of workplace air where these types of materials are used showed no detectable MDI at a detection limit of 0.5 ppb.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS

Contains certain components which may cause effects of injury in the upper respiratory tract, lung, liver, kidney, blood and testis. The components are methyl ethyl ketone, acetone, methylene bisphenyl isocyanate and fillers. Signs and symptoms of excessive exposure may be anesthetic or narcotic effects. Methyl ethyl ketone is probably not neurotoxic by itself but it potentiates the neurotoxicity of methyl-n-butyl ketone and n-hexane.

CANCER INFORMATION

Contains acetone, which did not cause cancer in laboratory animals.

Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/Polymeric MDI (6 mg/m³) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.

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TERATOLOGY (BIRTH DEFECTS)

Contains components which did not cause birth defects; other fetal effects occurred only at doses toxic to the mother. The components are methyl ethyl ketone and acetone. In laboratory animals, MDI/polymeric MDI did not produce birth defects; other fetal effects occurred only at high doses which were toxic to the mother.

REPRODUCTIVE EFFECTS

Contains acetone, which did not interfere with reproduction in animal studies.

SECTION IV - FIRST-AID MEASURES

- EYES:** Irrigate with flowing water immediately and continuously for 15 minutes. Consult medical personnel.
- SKIN:** Wash off in flowing water or shower.
- INGESTION:** If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.
- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

NOTE TO PHYSICIAN

May cause respiratory sensitization or asthma. Bronchodilators, expectorants, and antitussives may be of help. Respiratory symptoms, including pulmonary edema, may be delayed. Persons receiving significant exposure should be observed for 48 hours for signs of respiratory distress.

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION V - FIRE FIGHTING MEASURES

- FLASH POINT:** 12° F. **METHOD USED:** Setaflash
- EXTINGUISHING MEDIA:** Carbon dioxide, dry chemical, foam.
- SPECIAL FIRE FIGHTING PROCEDURES:** Fire fighters should wear self-contained breathing apparatus.
- UNUSUAL FIRE AND EXPLOSION HAZARDS:** Vapors are heavier than air and may travel along the ground or by ventilation duct to ignition sources far from material handling point. **EXTREMELY FLAMMABLE.**
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SECTION VI - ACCIDENTAL RELEASE MEASURES

(See Section XV for Regulatory Information.)

STEPS TO BE TAKEN IF MATERIAL IS SPILLED OR RELEASED: Secure ignition sources. Wear protective equipment. Dike, if necessary to prevent spread of spill. Cover and contain spill with absorbent material. Pump diked material and scoop absorbed material into container(s) for disposal. Use non-sparking tools.

SECTION VII - HANDLING AND STORAGE

HANDLING & STORAGE: EXTREMELY FLAMMABLE. Keep from heat, sparks and flame. Use appropriate grounding equipment while handling this material. Store indoors in tightly closed containers.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

These precautions are suggested for conditions with a high potential for exposure. If handling procedures are such that there is only a low potential for exposure, less protection may be needed. Emergency conditions may require additional precautions.

ENGINEERING CONTROLS: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Use only with adequate ventilation.

EYE/FACE PROTECTION: Use chemical goggles. If vapor exposure causes eye discomfort, use a full-face respirator.

SKIN PROTECTION: Use protective clothing impervious to this material. Selection of specific items such as faceshield, gloves, boots, apron, or full body suit will depend on operation. Remove contaminated clothing immediately, wash skin area with soap and water, and launder clothing before reuse.

RESPIRATORY PROTECTION: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required for certain operations, use an approved positive-pressure supplied-air respirator. For emergency and other conditions where the exposure guidelines may be greatly exceeded, use an approved positive-pressure self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

EXPOSURE GUIDELINES: Methyl ethyl ketone (2-butanone): ACGIH TLV and OSHA PEL are 200 ppm TWA, 300 ppm STEL.

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Acetone: ACGIH TLV and OSHA PEL are 750 ppm TWA, 1000 ppm, STEL.

Methylene bisphenyl isocyanate (MDI): ACGIH TLV is 0.005 ppm TWA and OSHA PEL is 0.02 ppm Ceiling.

PELs are in accord with those recommended by OSHA, as in the 1989 revision of PELs.

Although some of the fillers used in this product may have exposure guidelines, no exposure would be expected under normal handling conditions because of the physical state of the material.

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VOC (LBS/GAL): 4.65

$4.65 / 8.5 =$
EPA Method 24 Procedure B

SPECIFIC GRAVITY: 1.02 (+/-0.03)

VAPOR PRESSURE (mmHg): 104 @ 20°C.

BOILING POINT: 133°F.
(acetone)

VAPOR DENSITY (AIR=1): > 1

SOLUBILITY IN WATER: Partial

APPEARANCE AND ODOR: Black liquid; ketone odor

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable

INCOMPATIBILITY: Strong oxidizers

HAZARDOUS
DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, smoke, fumes

HAZARDOUS POLYMERIZATION: Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

(See Section III for Potential Health Effect. For detailed toxicological data write or call The Dow Chemical Company.)

ACUTE

Skin: The dermal LD50 has not been determined.

Ingestion: Single dose oral LD50 has not been determined.

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MUTAGENICITY: Several components in this mixture have been tested for their ability to affect genetic material. Mutagenicity studies in animals on tested components have been negative. In vitro mutagenicity studies on methyl ethyl ketone have been predominantly negative. In vitro studies on methylene bisphenyl isocyanate and acetone were negative in some cases, positive in others.

SECTION XII - ECOLOGICAL INFORMATION

(For detailed ecological data, write or call The Dow Chemical Company.)

SECTION XIII - DISPOSAL CONSIDERATIONS

(See Section XV for Regulatory Information)

WASTE DISPOSAL METHOD: Dispose of in compliance with all applicable federal, state/provincial and local statutes regarding the management, use, handling, treatment, storage, disposal, and transportation of hazardous wastes. Customers having compliance questions should contact their local, state/provincial or federal environmental agency.

SECTION XIV - TRANSPORTATION INFORMATION

U.S. DOT CLASSIFICATION/DESCRIPTION: For DOT regulatory information, if required, consult transportation regulations or product shipping papers.

SECTION XV - REGULATORY INFORMATION

(Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

U.S. REGULATIONS:

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard 29CFR 1910.1200.

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COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

<u>Chemical Name</u>	<u>CAS#</u>	<u>% in Product</u>	<u>RQ (LBS)</u>
Methyl ethyl ketone	000078-93-3	40-50	5000
Acetone	000067-64-1	10-20	5000
Methylene bisphenyl isocyanate (MDI)	000101-68-8	3-5	5000

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- An immediate health hazard
- A delayed health hazard
- A fire hazard
- A reactive hazard

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III or the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>Chemical Name</u>	<u>CAS#</u>	<u>% in Product</u>
Methyl ethyl ketone	000078-93-3	40-50
Acetone	000067-64-1	10-20
Methylene bisphenyl isocyanate (MDI)	000101-68-8	3-5
Polymethylene polyphenyl isocyanate	009016-87-9	15-25

STATE RIGHT-TO-KNOW: The following product components are cited on certain state list as mentioned.

<u>Chemical Name</u>	<u>CAS#</u>	<u>LIST</u>
Methyl ethyl ketone	000078-93-3	NJ2 NJ3 PA1 PA3
Acetone	000067-64-1	NJ1 NJ2 NJ3 PA1 PA3
Methylene bisphenyl isocyanate (MDI)	000101-68-8	NJ2 NJ3 PA1 PA3
Talc	014807-96-6	NJ3 PA1
Carbon black	001333-86-6	NJ3 PA1

NJ1=New Jersey Special Health Hazard Substance (present at greater than or equal to 0.1%).

NJ2=New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%).

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

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MSD#: 0502.00

SELECTED INTERNATIONAL REGULATIONS:

CANADIAN REGULATIONS: This product contains the following ingredients which are on Canada's Hazardous Ingredients List (WHMIS) in concentrations at or above the threshold.

<u>Chemical Name</u>	<u>CAS#</u>
Methyl ethyl ketone	000078-93-3
Acetone	000067-64-1
Methylene bisphenyl isocyanate (MDI)	000101-68-8
Carbon black	001333-86-4

SECTION XVI - OTHER INFORMATION

None

The information herein is given in good faith, but no warranty, expressed or implied is made. Consult Essex Specialty Products, Inc. for further information.

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* A subsidiary of The Dow Chemical Company

15-80-

10.5
FL OZ.

#946012
tube

* MATERIAL SAFETY DATA SHEET *

SECTION I - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER'S NAME: Essex Specialty Products, Inc.*
 ADDRESS: 1250 Harmon Road
 Auburn Hills, MI 48326

EMERGENCY TELEPHONE NUMBER: (810) 391-6300 / CHEMTREC: (800) 424-9300 TO BE USED ONLY IN
 EVENT OF CHEMICAL EMERGENCIES INVOLVING A SPILL, LEAK,
 FIRE, EXPOSURE, OR ACCIDENT INVOLVING CHEMICALS.

TELEPHONE NUMBER FOR INFO: (810) 391-6300 Mon./Fri. 8 AM-4 PM EST

PRODUCT NAME: Betaseal® 58702 Urethane Adhesive

SYNONYM(S): None

MSD NUMBER: 0434.04

EFFECTIVE DATE: 03-05-96 DATE PRINTED:

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENTS	CAS #	AMOUNT (wt %)
Proprietary diphenylmethane diisocyanate (MDI) based urethane polymer *	Proprietary	-
Carbon black	001333-86-4	-
Toluene	000108-88-3	< 5 ✓
Phthalate esters	Proprietary	25-35
Clay	001332-58-7	-
* Free MDI - CAS# 101-68-8	< 1%	

SECTION III - HAZARDS IDENTIFICATION

(See Section XI for toxicological data.)

EMERGENCY OVERVIEW

 *
 * Black paste. Solvent odor. Combustible. *
 *
 *

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POTENTIAL HEALTH EFFECTS

This section includes possible adverse effects which could occur if this material is not handled in the recommended manner.

- EYES:** May cause irritation or corneal injury due to mechanical action.
- SKIN:** Prolonged or repeated exposure may cause slight skin irritation. Material may stick to skin causing irritation upon removal. A single prolonged exposure is not likely to result in the material being absorbed through skin in harmful amounts. May stain skin.
- INGESTION:** Single dose oral toxicity is considered to be low. Small amounts swallowed incidental to normal handling operations are not likely to cause injury; swallowing amounts larger than that may cause injury.
- INHALATION:** At room temperature, exposures to vapors are minimal due to physical properties; higher temperatures may generate vapor levels sufficient to cause irritation. This material contains mineral and/or inorganic fillers. There is essentially no potential for inhalation exposure to these fillers incidental to industrial handling due to the physical state. Excessive exposure to solvent(s) may cause respiratory irritation and central nervous system depression. Signs and symptoms of central nervous system depression, in order of increasing exposure are headache, dizziness, drowsiness, and incoordination. Signs and symptoms of excessive exposure may be nausea and/or vomiting.

SYSTEMIC (OTHER TARGET ORGAN) EFFECTS

For the minor component, toluene, excessive exposure may cause irritation to upper respiratory tract. Signs and symptoms of excessive exposure may be central nervous system effects. Excessive exposure may cause neurologic signs and symptoms. Toluene has caused hearing loss in laboratory animals upon exposure to high concentrations. For the phthalate ester component, liver effects were observed in rats given high doses in their diet; no adverse effects were observed in repeated exposure inhalation studies in several animal species.

CANCER INFORMATION

Contains a phthalate ester which produced an increased incidence of leukemia in a 2-year animal feeding study; effects were not dose related. There were no carcinogenic effects observed in rats given 0.03 to 0.3% in their diet for 30 months. Contains toluene, which did not cause cancer in laboratory animals. For the minor component, MDI, lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/polymeric MDI (6 mg/m³) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects reported for MDI.

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TERATOLOGY (BIRTH DEFECTS)

Toluene has been toxic to the fetus in laboratory animals at doses toxic to the mother, and has caused birth defects in mice dosed orally but not by inhalation. The phthalate ester has caused birth defects in laboratory animals only at doses toxic to the mother.

REPRODUCTIVE EFFECTS

No relevant information found.

SECTION IV - FIRST-AID MEASURES

EYES: Flush eyes with plenty of water; mechanical effects only.

SKIN: Wash off in flowing water or shower.

INGESTION: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. Call a physician or transport to a medical facility.

NOTE TO PHYSICIAN

No specific antidote. Supportive care. Treatment based on judgment of the physician in response to reactions of the patient.

SECTION V - FIRE FIGHTING MEASURES

FLASH POINT: 105° F. METHOD USED: Setaflash

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical, foam.

SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

SECTION VI - ACCIDENTAL RELEASE MEASURES

(See Section XV for Regulatory Information.)

STEPS TO BE TAKEN IF MATERIAL Secure ignition sources. Cover and contain spill with absorbent material. Scoop material into container for disposal. Use non-sparking tools.

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SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

VOC (LBS/GAL): 0.1863 EPA Method 24 Procedure B
SPECIFIC GRAVITY: 1.19 (+/-0.03)
SOLUBILITY IN WATER: Insoluble
APPEARANCE AND ODOR: Black paste; solvent odor

SECTION X - STABILITY AND REACTIVITY

STABILITY: Stable
INCOMPATIBILITY: Will react slowly with atmospheric moisture.
HAZARDOUS
DECOMPOSITION PRODUCTS: Carbon dioxide, carbon monoxide, smoke, fumes
HAZARDOUS POLYMERIZATION: Will not occur

SECTION XI - TOXICOLOGICAL INFORMATION

(See Section III for Potential Health Effect. For detailed toxicological data write or call The Dow Chemical Company.)

ACUTE

Skin: The dermal LD50 has not been determined.
Ingestion: Single dose oral LD50 has not been determined.
MUTAGENICITY: For the phthalate ester component, in vitro mutagenicity studies were negative. The majority and the most reliable of the many mutagenicity studies done on toluene, both in vitro (test tube) and in animals, indicate it is not a mutagen.

SECTION XII - ECOLOGICAL INFORMATION

(For detailed ecological data, write or call The Dow Chemical Company.)

SECTION XIII - DISPOSAL CONSIDERATIONS

(See Section XV for Regulatory Information)

WASTE DISPOSAL METHOD: Dispose of in compliance with all applicable federal, state/provincial and local statutes regarding the management, use, handling, treatment, storage, disposal, and

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MANUFACTURER: Essex Specialty Products, Inc.
PRODUCT NAME: Betaseal® 58702 Urethane Adhesive

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MSD#: 0434.04

transportation of hazardous wastes. Customers having compliance questions should contact their local, state/provincial or federal environmental agency.

SECTION XIV - TRANSPORTATION INFORMATION

U.S. DOT CLASSIFICATION/DESCRIPTION: For DOT regulatory information, if required, consult transportation regulations or product shipping papers.

SECTION XV - REGULATORY INFORMATION

(Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

OSHA HAZARD COMMUNICATION STANDARD: This product is a "Hazardous Chemical" as defined by OSHA Hazard Communication Standard 29CFR 1910.1200.

COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA or SUPERFUND):

This product contains the following substance(s) listed as "Hazardous Substances" under CERCLA which may require reporting of releases:

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>% IN PRODUCT</u>	<u>RQ (LBS)</u>
Phthalate esters	Proprietary	25-35	1
Toluene	000108-88-3	< 5	1000

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

An immediate health hazard
A delayed health hazard

SARA 313 INFORMATION: This product contains the following substances subject to the reporting requirements of Section 313 of Title III or the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372:

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>% IN PRODUCT</u>
Toluene	000108-88-3	< 5

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MANUFACTURER: Essex Specialty Products, Inc.
PRODUCT NAME: Betaseal® 58702 Urethane Adhesive

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STATE RIGHT-TO-KNOW: The following product components are cited on certain state list as mentioned. Non-listed components may be shown in the composition section of the MSDS.

<u>CHEMICAL NAME</u>	<u>CAS#</u>	<u>LIST</u>
Carbon black	001333-86-4	NJ3 PA1
Toluene	000108-88-3	NJ1 NJ2 NJ3 PA1 PA3
Clay	001332-58-7	PA1

NJ1=New Jersey Special Health Hazard Substance (present at greater than or equal to 0.1%).

NJ2=New Jersey Environmental Hazardous Substance (present at greater than or equal to 1.0%).

NJ3=New Jersey Workplace Hazardous Substance (present at greater than or equal to 1.0%).

PA1=Pennsylvania Hazardous Substance (present at greater than or equal to 1.0%).

PA3=Pennsylvania Environmental Hazardous Substance (present at greater than or equal to 1.0%).

CALIFORNIA PROP 65: This product contains a chemical(s) known to the State of California to cause reproductive toxicity.

The chemical(s) is/are: Toluene

SELECTED INTERNATIONAL REGULATIONS:

CANADIAN REGULATIONS: This product contains the following ingredients which are on Canada's Hazardous Ingredients List (WHMIS) in concentrations at or above the threshold.

<u>CHEMICAL NAME</u>	<u>CAS#</u>
Carbon black	001333-86-4
Methylene bisphenol isocyanate (MDI)	000101-68-8
Toluene	000108-88-3

SECTION XVI - OTHER INFORMATION

None

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10-120

mt

946327

MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

Date of Preparation: 08-29-96
Prepared by: R. Smothers
Manufacturer: LILLY INDUSTRIES, INC.
Address: 2355 Southwest 66th Terrace
Davie, Florida 33317

Telephone#: (305) 475-0150 Night: (305) 475-0150
Emergency#: (305) 475-0150 Night: (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: 68-8107
Product Class: POLYESTER GEL KOTE
Trade Name: ORTHO BLACK GEL KOTE (68-8107)

HMIS Information: Health- 2* Flammability- 3
Reactivity- 2 Personal Protective Equipment- X
HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least
* Chronic health hazard

Ask your supervisor for specialized handling directions.

SECTION II HAZARDOUS INGREDIENTS

METHYL METHACRYLATE
% BY WT 3.000 CAS# 80-62-6
VAPOR PRESSURE: 29.00 MMHG @ 20C
EXPOSURE LIMIT
ACGIH TLV (TWA) 100.00 PPM
OSHA PEL (TWA) 100.00 PPM

STYRENE MONOMER
% BY WT 37.719 CAS# 100-42-5
VAPOR PRESSURE: 9.50 MMHG @ 20C
EXPOSURE LIMIT
ACGIH TLV (TWA) 50.00 PPM
OSHA PEL (TWA) 100.00 PPM
Carcinogen 2B, IARC

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MATERIAL SAFETY DATA SHEET

68-8107

URTHO BLACK GEL-KOTE (68-8107)

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION III PHYSICAL DATA

Boiling Range: High 261.0 F Low 214.0 F
Vapor Pressure: See Section II
Vapor Density: Heavier Than Air
Evaporation Rate: Equal to Butyl Acetate
Weight per Gallon: 10.07
% Volatile by Weight: 40.87
Appearance: N/A

pH: N/A

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flammability Classification: Class IC
Actual Flashpoint 100 88.0 F
Explosion Level: Lower 1.1 Upper 12.5
Lower Flammability Limit: N/A

HEAT PROTECTION PROCEDURES

Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture.

EXTINGUISHING MEDIA

Use CO2, Dry Chemical, or Foam extinguisher. The National Fire Protection Association Class B extinguisher is designed to extinguish fires originating from burning liquids.

SPECIAL FIRE FIGHTING PROCEDURES

Water spray may be ineffective. Water may be used to cool closed containers to prevent pressure buildup and possible autoignition or explosion when exposed to extreme heat. If water is used, fog nozzles are preferable.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks and open flame. Closed container may explode when exposed to extreme heat. Do not apply to hot surfaces. Never use welding or cutting torch on or near container (even empty) because product (even residue) may ignite explosively.

SEE DISCLAIMER ON REVERSE SIDE

MATERIAL SAFETY DATA SHEET

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68-8107

ORIND BLACK GEL KOTE (68-8107)

SECTION V HEALTH HAZARD DATA

Based on the presence of components (02) this product may cause corneal injury.

Based on the presence of components (02) this product may cause drying and dermatitis on repeated or prolonged exposure to the skin.

Based on the presence of components (02) this product may cause skin irritation.

Based on the presence of components (01) this product may cause skin burns.

Based on the presence of components (02) this product is presumed to be moderately toxic.

FIRST AID

EYE CONTACT: Flush with luke warm water for 15 minutes. Contact a physician immediately.

SKIN CONTACT: Flush wash with copious amounts of luke warm water. Remove contaminated clothing promptly--Contact a physician immediately.

INHALATION: Remove exposed individual to fresh air. Restore breathing if required. Contact a physician immediately.

INGESTION: Rinse mouth immediately. Give exposed individual 6 to 8 ounces of liquid. (Never give anything by mouth to an unconscious person.) Do NOT induce vomiting unless advised by a physician. Contact a physician immediately.

SECTION VI REACTIVITY DATA

CONDITIONS TO AVOID

Avoid exposure to sparks, open flame, hot surfaces, and all sources of heat and ignition.

May produce hazardous fumes when heated to decomposition as in welding. Fumes may contain carbon monoxide, carbon dioxide, and oxides of nitrogen.

INCOMPATIBILITY (Materials to Avoid)

Based on the presence of components (02) this product is incompatible with strong mineral acids, peroxides, and polymerization catalysts.

This product is incompatible with strong acids.

HAZARDOUS POLYMERIZATION

may occur

STABILITY

This product is stable.

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MATERIAL SAFETY DATA SHEET

68-8107

ORTHO BLACK GEL KOTE (68-8107)

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Stay upwind and away from spill unless wearing appropriate protective equipment. Stop and/or contain discharge if it may be done safely. Keep all sources of ignition away. Ventilate area of spill. Use non-sparking tools for cleanup. Cover with inert material to reduce fumes. Keep out of drains, sewers, or waterways. Contact fire authorities. Notify local health and pollution control agencies. Call spill response teams if large spill.

WASTE DISPOSAL METHOD

DO NOT FLUSH TO SEWER, WATERFRESH, OR WATERWAY.

Dispose of in accordance with local, state and federal regulations. Do not incinerate closed containers.

SECTION VIII SAFE HANDLING AND USE INFORMATION

PROTECTIVE EYEWEAR

Avoid contact with eyes. Wear goggles if there is a likelihood of contact with eyes. Eyewash stations and safety showers should be readily available in handling areas.

Use safety eyewear with perforated sideshields.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

VENTILATION

Use ventilation as required to control vapor concentrations. Avoid prolonged or repeated breathing of vapors. If exposure exceeds TLV, use a NIOSH approved respirator to prevent overexposure. Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV of the most hazardous ingredient in Section II below acceptable limit, TLL in Section IV below stated limit, and to remove decomposition products during welding or flame cutting on surfaces coated with this product.

DISCRETION ADVISED

Lilly Industries, Inc. takes no responsibility for determining what measures are required for personal protection in any specific application. The general information given should be used with discretion.

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MATERIAL SAFETY DATA SHEET

68-8107

ORING BLACK GEL KOTE (68-8107)

natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

HYGIENE PRACTICES

Wash hands thoroughly before eating and using washroom. Remove contaminated clothing immediately and do not wear again until it has been properly laundered.

SECTION IX SPECIAL PRECAUTIONS

HANDLING AND STORING PRECAUTIONS

Keep product containers cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Do NOT smoke in storage areas.

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

SECTION X Section 313 Toxic Chemicals

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material. (P denotes percent parent metal contained in the preceding chemical compound)

Chemical	CAS Number	Weight %
METHYL METHACRYLATE	80-62-6	3.000
STYRENE MONOMER	100-42-5	37.719

THE INFORMATION CONTAINED HEREIN IS INFORMATION RECEIVED FROM OUR RAW MATERIAL SUPPLIERS AND OTHER SOURCES AND IS BELIEVED TO BE RELIABLE. THIS DATA IS NOT TO BE TAKEN AS A WARRANTY OR REPRESENTATION FOR WHICH LILLY INDUSTRIES, INC. ASSUMES LEGAL RESPONSIBILITY.

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LILLY

MATERIAL SAFETY DATA SHEET FOR: SE6710

SEA RAY BOATS
100 Sea Ray Drive
Melitor Island FL 32952
ATTENTION OF LAURIE

SEE DISCLAIMER ON REVERSE SIDE

175-15

P.N. 983130

MATERIAL SAFETY DATA SHEET

RAABE CORPORATION
 N92 W14701 ANTHONY AVE.
 MENOMONEE FALLS, WI 53051-1630
 INFORMATION TELEPHONE #: 414-255-9500

FOR CHEMICAL EMERGENCY
 SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT
 CALL CHEMTREC - DAY OR NIGHT
 TELEPHONE #: 800-424-9300

MSDS #: 53

PREPARATION DATE: 03/12/91

REPLACES DATE: NEW MSDS

PREPARED BY: RMB

SECTION I - PRODUCT IDENTIFICATION

BOMAR

PAINT, BOMAR CREAM TOUCH-UP BTL

RAABE PT.# 35319

50381202 CREAM

ACRYLIC ENAMEL TOUCH-UP PAINT

602. Bottle

SECTION II - HAZARDOUS INGREDIENTS

CHEMICAL NAME	CAS #	WT.% LESS THAN	OCCUPATIONAL EXPOSURE LIMITS (TLV-TWA) (TLV-STEL)	VAPOR PRESSURE mmHg @ 20C	KNOWN OR SUSPECTED CARCINOGEN	SEC 313
SILICON DIOXIDE	7831-86-9	0-5	10 mg/M3 Total Dust	0.0	NO	NO
MINERAL SPIRITS	64742-88-7	0-3	100 ppm	0.0	NO	NO
PROPYLENE GLYCOL METHYL ETHER ACETATE	108-65-8	12-45	NONE EST.	2.8	NO	NO
XYLENE	1330-20-7	20-40	100 ppm	5.1	NO	YES
LIGHT AROMATIC SOLVENT NAPHTHA	64742-86-8	0-10	50 ppm	10.0	NO	NO
ACRYLIC POLYMER	NONE	7-12	NOT HAZARDOUS	0.0	NO	NO
ALKYD RESIN	NO INFO	18-33	NOT HAZARDOUS	0.0	NO	NO
ALUMINUM FLAKE	7420-90-8	0-5	10 mg/M3	0.0	NO	YES
N-BUTYL ACETATE	123-88-4	0-4	100 PPM	15.0	NO	NO
ORGANIC & INORGANIC PIGMENTS	NONE	0-22	NO INFO	0.0	NO	NO
MINERAL SPIRITS	8052-11-3	0-5	100 PPM	2.6	NO	NO

THIS PRODUCT CONTAINS ONE OR MORE MATERIALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND THE COMMUNITY RIGHT-TO-KNOW ACTS OF 1980 AND OF 40 CFR 372

SECTION III - PHYSICAL DATA

BOILING RANGE: 248-396° F VAPOR DENSITY: HEAVIER THAN AIR SPECIFIC GRAVITY: .9900-1.1927
 EVAPORATION RATE: SLOWER THAN BUTYL ACETATE VOLATILE BY VOLUME: 50.2-78.7% VOLATILE BY WEIGHT: 45.1-70.0%
 ODOR: SOLVENT ODOR APPEARANCE: OPAQUE LIQUID SOLUBILITY: UNKNOWN

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION: FLASH POINT: 72° F LOWER EXPLOSIVE LIMIT: 1.0%
 OSHA: FLAMMABLE LIQUID - CLASS IB (TAGUABUE CLOSED CUP) UPPER EXPLOSIVE LIMIT: 10.0%
 DOT: FLAMMABLE LIQUID

EXTINGUISHING MEDIA: DRY CHEMICAL - CARBON DIOXIDE FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, SPARKS, AND OPEN FLAME. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT. PRODUCT VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL A LONG DISTANCE TO A SOURCE OF IGNITION AND FLASHBACK.

SPECIAL FIREFIGHTING PROCEDURES: FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS TO AVOID INHALATION OF VAPORS SHOULD BE USED. WATER SPRAY SHOULD NOT BE USED EXCEPT TO KEEP DOWN VAPORS OR COOL CLOSED CONTAINERS TO PREVENT BUILD-UP OF PRESSURE. IF WATER IS USED, FOG NOZZLES ARE PREFERRED. WHEN FIGHTING A FIRE INVOLVING ALUMINUM PASTE, DO NOT USE A WATER STREAM OR HALOGENATED EXTINGUISHING AGENTS.

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY: INHALATION, DERMAL

EFFECT OF ACUTE OVEREXPOSURE: INHALATION: EXPOSURE TO HIGH CONCENTRATIONS OF VAPORS MAY CAUSE DIZZINESS, BREATHING DIFFICULTY, HEADACHES OR RESPIRATORY IRRITATION. EXTREMELY HIGH CONCENTRATIONS MAY CAUSE DROWSINESS, SLEEPING, CONFUSION, UNCONSCIOUSNESS, COMA OR DEATH. HIGH CONCENTRATIONS OF VAPORS MAY BE IRRITATING TO THE THROAT AND LUNGS. PROLONGED INHALATION OF DUSTS CONTAINING FREE SILICA MAY RESULT IN THE DEVELOPMENT OF A DISABLING CHRONIC PNEUMONITIS (LUNG DISEASE) KNOWN AS SILICOSIS. SKIN CONTACT: REPEATED AND PROLONGED CONTACT WITH THE SKIN MAY CAUSE ALLERGIC DERMATITIS. MAY CAUSE SKIN IRRITATION. EYE CONTACT: MAY CAUSE EYE IRRITATION. INGESTION: MODERATELY TOXIC. MAY CAUSE STOMACH DISCOMFORT, NAUSEA, VOMITING, DIARRHEA, AND NARCOSIS.

EFFECTS OF CHRONIC OVEREXPOSURE: CHRONIC OVEREXPOSURE TO A COMPONENT OR COMPONENTS IN THIS MATERIAL HAS BEEN FOUND TO CAUSE THE FOLLOWING EFFECTS IN LABORATORY ANIMALS: KIDNEY DAMAGE, EYE DAMAGE, LIVER DAMAGE, ANEMIA. CHRONIC OVEREXPOSURE TO A COMPONENT OR COMPONENTS IN THIS PRODUCT HAS BEEN SUGGESTED AS A CAUSE OF THE FOLLOWING EFFECTS IN HUMANS: CARDIAC ABNORMALITIES. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

MSDS #:53

PREPARATION DATE 03/12/91

SECTION V - HEALTH HAZARD DATA**MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE:** NONE GENERALLY RECOGNIZED.**EMERGENCY AND FIRST AID PROCEDURES:** INHALATION: OVEREXPOSURE: MOVE PERSON TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK MEDICAL ATTENTION. EYE CONTACT: FLUSH WITH LARGE QUANTITIES OF WATER FOR AT LEAST 15 MINUTES. SKIN CONTACT: WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER. SEEK MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. INGESTION: SINCE THIS PRODUCT MAY CONTAIN MATERIALS WHICH CAN CAUSE LUNG DAMAGE IF ASPIRATED INTO THE LUNGS, THE DECISION WHETHER TO INDUCE VOMITING OR NOT, MUST BE MADE BY A PHYSICIAN AFTER CAREFUL CONSIDERATION OF ALL MATERIALS INGESTED.**SECTION VI - REACTIVITY DATA****STABILITY:** THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR UNDER NORMAL CONDITIONS.**HAZARDOUS DECOMPOSITION PRODUCTS:** THERMAL DECOMPOSITION MAY PRODUCE CARBON DIOXIDE, CARBON MONOXIDE, AND UNIDENTIFIABLE ORGANIC MATERIALS.**CONDITIONS TO AVOID:** AVOID CONTACT WITH HEAT, SPARKS, AND OPEN FLAME.**INCOMPATIBILITY:** STRONG OXIDIZING AGENTS. ALUMINUM FLAKE CAN REACT VIOLENTLY WITH HALOGENATED HYDROCARBONS INCLUDING HALOGENATED FIRE EXTINGUISHING AGENTS. ALUMINUM FLAKE CAN ALSO REACT WITH SOME ACIDS, CAUSTIC SOLUTIONS.**SECTION VII - SPILL OR LEAK PROCEDURES****STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** REMOVE ALL SOURCES OF IGNITION. AVOID HEAT, SPARKS, FLAMES, AND ANYTHING WHICH COULD CAUSE FIRE. VENTILATE AREA OF SPILL AND ADJACENT LOW-LYING AREAS. AVOID BREATHING SOLVENT VAPORS. REMOVE WITH INERT ABSORBENT MATERIALS AND NON-SPARKING TOOLS.**WASTE DISPOSAL METHOD:** PLACE IN CLOSED CONTAINERS. DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.**SECTION VIII - SAFE HANDLING AND USE INFORMATION****RESPIRATORY PROTECTION:** IF WORKPLACE EXPOSURE LIMITS ARE EXCEEDED FOR ANY COMPONENT (SEE SECTION 2 FOR HAZARDOUS COMPONENTS AND EXPOSURE LIMITS), A NIOSH/OSHA APPROVED RESPIRATOR SUITABLE FOR COMPONENTS LISTED IS RECOMMENDED.**VENTILATION:** SUFFICIENT VENTILATION, IN VOLUME AND PATTERN, SHOULD BE PROVIDED TO KEEP AIR CONTAMINATION BELOW CURRENT APPLICABLE OSHA PERMISSIBLE EXPOSURE LIMIT OR ACGIH'S TLV LIMIT.**PROTECTIVE GLOVES:** CHEMICAL RESISTANT PLASTIC OR RUBBER GLOVES ARE RECOMMENDED FOR PROLONGED OR REPEATED CONTACT.**EYE PROTECTION:** CHEMICAL GOGGLES WITH SIDE SHIELDS OR FACE SHIELD ARE RECOMMENDED IF CONTACT WITH EYES IS LIKELY.**OTHER PROTECTIVE EQUIPMENT:** APPROPRIATE IMPERVIOUS CLOTHING IS RECOMMENDED IF PROLONGED OR REPEATED CONTACT IS LIKELY.**HYGIENIC PRACTICES:** WASH HANDS BEFORE EATING OR SMOKING. SMOKE IN DESIGNATED AREAS ONLY.**SECTION IX - SPECIAL PRECAUTIONS****PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** STORE IN A COOL DRY AREA WITH VENTILATION SUITABLE FOR STORING MATERIALS SHOWN IN SECTION II. STORE IN A COOL PLACE AWAY FROM DIRECT SUNLIGHT OR ANY SOURCE OF IGNITION. DO NOT STORE AT TEMPERATURES ABOVE 120 DEGREES F.**OTHER PRECAUTIONS:** INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THIS PRODUCT CAN BE HARMFUL OR FATAL.**SECTION X - HMIS RATINGS****HEALTH:** 2 **FLAMMABILITY:** -3 **REACTIVITY:** 0 **PERSONAL PROTECTION:** G**SECTION XI - DISCLAIMER**

THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, SINCE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

LOCTITE CORPORATION

1001 TROUT BROOK CROSSING
ROCKY HILL, CT 06067-3910
EMERGENCY PHONE: (860) 571-5100

ISSUED 1/27/97
9:16:25
FAX: (860) 571-5465

MATERIAL SAFETY DATA SHEET

Page 1 of 3

CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CLEANER, PVC KLEAN-N-PRIME

.88 OZ CAN

Product Name: Permatex(R) Klean 'N Prime(TM) Activator
Item No.: 24163
Product Type: Aerosol accelerator

COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
ACETONE	67-64-1	75-80
ISOBUTANE	75-28-5	20-25
2-Ethylhexanoic acid	149-57-5	0.1-1
Organo-copper compound	22221-10-9	0.1-1
Trialkylammonium Carboxylate	58823-74-8	0.1-1

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
ACETONE	750 ppm TWA	750 ppm TWA	None
Organo-copper compound	1780 mg/m3 Cu 0.2mg/m3fume Cu 1 mg/m3 dust	1800 mg/m3 Cu 0.1mg/m3 Cu 1 mg/m3 dust	None

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
ACETONE	1000 ppm 2380 mg/m3	1000 ppm 2400 mg/m3

HAZARDS IDENTIFICATION

Toxicity: Harmful if inhaled or swallowed.
Possible eye and respiratory irritant.
Narcotic at high concentrations.
Prolonged inhalation may cause headaches.
Moderately toxic by ingestion
Liquid may defat skin.

Primary Routes of Entry: Inhalation, ingestion, contact.

Signs and symptoms of Exposure: Vapors irritate eyes, nose and throat.
Liquid is an eye irritant and may irritate skin.

Existing Conditions Aggravated by Exposure: None known

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
ACETONE	BLO CNS IRR	NO	NO	NO
ISOBUTANE	CAR CNS LUN	NO	NO	NO
2-Ethylhexanoic acid	IRR	NO	NO	NO
Organo-copper compound	No Data	NO	NO	NO
Trialkylammonium Carboxylate	No Data	NO	NO	NO

Abbreviations

BLO Blood
CNS Central nervous system
LUN Lung
CAR Cardiac
IRR Irritant

FIRST AID MEASURES

Ingestion: Give water to dilute. Do not induce vomiting.
Keep individual calm. Obtain medical attention.

Inhalation: Remove to fresh air. If symptoms persist, obtain medical attention.

Skin Contact: Wash with soap and water.

Eye Contact: Flush with water for at least 15 minutes. Obtain medical attention.

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MATERIAL SAFETY DATA SHEET

Product Name: Permatex(R) Klean 'N Prime(TM) Activator
Item No.: 24163

FIRE FIGHTING MEASURES

Flash Point: Approximately -4°F (Base) Method: Tag Closed Cup
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical
Hazardous Products formed by Fire or Thermal Decomposition: Irritating organic vapors
Inusual Fire or Explosion Hazards: Cans may burst in fires.
Explosive Limits:
% by volume in air) Lower Acetone: 2.6%
Isobutane: 1.8%
% by volume in air) Upper Acetone: 13%
Isobutane: 8.4%

ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Avoid flame and sparks. Maintain adequate ventilation. Soak up in an inert absorbent and store in a closed container until disposal.

HANDLING AND STORAGE

Safe Storage: Store away from flame and sparks and below 120°F
Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)
Handling: Avoid prolonged breathing of fumes. Avoid skin or eye contact. Do not use near heat, sparks, or open flame.

EXPOSURE CONTROLS, PERSONAL PROTECTION

yes: Safety glasses or goggles.
skin: Rubber or plastic gloves.
ventilation: Sufficient to maintain vapor concentration below TLV.
See Section 2 for Exposure Limits.

PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Green liquid (Base only)
Solvent: Acetone
Boiling Point: 133°F (Base only)
Flammability: Does not apply
Solubility in Water: Miscible
Specific Gravity: 0.791 (Base only)
Relative Organic Compound (EPA Method 24) 99.48%; 787 grams per liter (Base only)
Vapor Pressure: Approximately 172 mm Hg at 68°F (Base only)
Vapor Density: Not available
Evaporation Rate (Ether = 1) 1.9 (Base only)

STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers, peroxides
Hazardous Decomposition Products (non-thermal): None

TOXICOLOGICAL INFORMATION

See Section 3.

ECOLOGICAL INFORMATION

No data available

LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

Product Name: Permatex(R) Klean 'N Prime(TM) Activator
Item No.: 24163

10. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Use disposal service licensed to handle flammable aerosols.
EPA Hazardous Waste Number: D001 - Hazardous waste per 40CFR 261.21

11. TRANSPORT INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Consumer Commodity
Hazard Class or Division: ORM-D
Identification Number: None
Marine Pollutant: None
IATA
Proper Shipping Name: Aerosols, flammable, n.o.s.
Class or Division: Division 2.1
UN or ID Number: UN 1950

12. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains a chemical known to the State of California to cause cancer and birth defects or other reproductive harm.

13. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 2
Flame Hazard: 4
Reactivity Hazard: 0
Specific Hazard: Does not apply
Estimated HMIS(R) Code:
Health Hazard: 2
Flammability Hazard: 4
Reactivity Hazards: 0
Personal Protection: B See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Stephen Repetto
Title: Research Chemist, Environmental Health & Safety
Company: Loctite Corp., 1001 Tr Br Cr, Rocky Hill CT 06067
(860) 571-5100
Revision Date: January 22, 1996
Revision: 0004

MATERIAL SAFETY DATA SHEET

10ml

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lock Nuts(TM) Removable Threadlocker
 Item No.: 81788
 Product Type: Anaerobic

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
Polyglycol dimethacrylate	25852-47-5	60-65
Polyglycol oleate	9004-96-0	25-30
SACCHARIN	81-07-2	3-5
CUMENE HYDROPEROXIDE*	80-15-9	1-3
Propylene glycol	57-55-6	1-3
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	112945-52-5	1-3
N,N-Dialkyltoluidines	613-48-9	0.1-1
TITANIUM DIOXIDE	13463-67-7	0.1-0.5

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	10 mg/m3 TWA	6 mg/m3 TWA	3 mg/m3 TWA
TITANIUM DIOXIDE	10 mg/m3 dust	15 mg/m3 dust 5 mg/m3 resp	resp. dust None
Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)	

3. HAZARDS IDENTIFICATION

Toxicity: Mild eye irritant. Propylene glycol is a mild skin irritant.
 Primary Routes of Entry: Eye, skin contact.
 Signs and symptoms of Exposure: May cause dermatitis on prolonged contact in sensitive individuals.
 Existing Conditions Aggravated by Exposure: Propylene glycol: dermatitis.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
Polyglycol dimethacrylate	ALG IRR	NO	NO	NO
Polyglycol oleate	IRR	NO	NO	NO
SACCHARIN	No Data	YES	2B	NO
CUMENE HYDROPEROXIDE	ALG CNS COR IRR MUT	NO	NO	NO
Propylene glycol	IRR	NO	NO	NO
SILICA, AMORPHOUS, FUMED, CRYSTALLINE-FREE	NUI	NO	N/A	NO
N,N-Dialkyltoluidines	No Data	NO	NO	NO
TITANIUM DIOXIDE	AC4 IRR NUI	NO	NO	NO

Abbreviations

N/A Not Applicable
 AC4 ACGIH-Unclassifiable as human carc.
 CNS Central nervous system
 IRR Irritant
 NUI Nuisance dust
 2B Possibly carcinogenic to humans
 ALG Allergen
 COR Corrosive
 MUT Mutagen

LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

Page 2 of 3

Product Name:
Item No.:

Lock Nuts(TM) Removable Threadlocker
81788

4. FIRST AID MEASURES

Ingestion: Do not induce vomiting. Keep individual calm. Obtain medical attention.
Inhalation: Does not apply.
Skin Contact: Wash thoroughly with soap and water.
Eye Contact: Flush at least 15 minutes with water. Obtain medical attention.

5. FIRE FIGHTING MEASURES

Flash Point: More than 200°F Method: Tag Closed Cup
Recommended
Extinguishing Agents: Carbon dioxide, foam, dry chemical.
Special Firefighting Procedures: Not available
Hazardous Products formed by Fire or Thermal Decomp: Irritating organic vapors; oxides of carbon.
Unusual Fire or Explosion Hazards: None
Explosive Limits:
(% by volume in air) Lower Propylene glycol: 2.6%
(% by volume in air) Upper Propylene glycol: 12.5%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Soak up in an inert absorbant. Store in a partly filled, closed container until disposal.

7. HANDLING AND STORAGE

Safe Storage: Store below 100°F
(Contact Loctite Customer Service 1-800-243-4874 for shelf Life information)
Handling: Avoid prolonged skin contact. Keep away from eyes.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Safety glasses or goggles
Skin: Neoprene, rubber, or butyl rubber gloves.
Ventilation: Does not apply
Respiratory: Not available
See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Blue liquid
Odor: Mild
Boiling Point: More than 300°F
pH: Does not apply
Solubility in Water: Slight
Specific Gravity: 1.1 at 75°F
Volatile Organic Compound (EPA Method 24): 13.3%; 146 grams per liter
Vapor Pressure: Less than 5mm at 80°F
Vapor Density: Not available
Evaporation Rate (Ether = 1): Not available

10. STABILITY AND REACTIVITY

Stability: Stable
Hazardous Polymerization: Will not occur
Incompatibility: Strong oxidizers, free radical initiators, inert gases.
Conditions to Avoid: Not available
Hazardous Decomposition Products (non-thermal): None

LOCTITE CORPORATION

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MATERIAL SAFETY DATA SHEET

Page 3 of 3

Product Name: Lock Nuts(TM) Removable Threadlocker
Item No.: 81788

11. TOXICOLOGICAL INFORMATION

Oral LD50 more than 10000 mg/kg.
Dermal LD50 more than 5000 mg/kg.

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Incinerate following EPA and local regulations.
EPA Hazardous Waste Number: NH - Not a RCRA Hazardous Waste Material

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)
Domestic Ground Transport
Proper Shipping Name: Unrestricted
Hazard Class or Division: Unrestricted
Identification Number: None
Marine Pollutant: None

IATA
Proper Shipping Name: Unrestricted
Class or Division: Unrestricted
UN or ID Number: None

15. REGULATORY INFORMATION

CA Proposition 65: This product contains Saccharin. No prop65 hazard warning is necessary if this product is used as reasonably anticipated.

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 1
Fire Hazard: 1
Reactivity Hazard: 1
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 1*
Flammability Hazard: 1
Reactivity Hazards: 1
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

Prepared By: Stephen Repetto
Title: Research Chemist, Health and Safety
Company: Loctite Corporation
1001 Trout Brook Crossing, Rocky Hill CT 06067
(24hr.) Phone: (860) 571-5100
Revision Date: April 15, 1997
Revision: 0031



**Loctite
Corporation**
North American Group

1001 Trout Brook Crossing
Rocky Hill, Connecticut 06067
Telephone: (203) 571-5100
Fax: (203) 571-5485

TO: SELINA CANTELOU
FROM: Mary Coffey
TELEPHONE: 4072591525
DATE: 8/18/97
RE:
MSDS(S): 81788
PAGES: 4 (ALL INCLUSIVE)

FAX: 914079567533

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

U.S. Department of Labor Occupational Safety and Health Administration (Non-Mandatory Form) Form Approved OMB No. 1218-0072

25.110 1081694

10.302



IDENTITY (As Used on Label and List)

STAR BRITE SILICONE SEALANT

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Product #82101, 82102, 82103, 82121, 82122, 82123, 82180

Manufacturer's Name

STAR BRITE

Emergency Telephone Number

(800) 424-9300

Address (Number, Street, City, State, and ZIP Code)

4041 S.W. 47 Avenue

Telephone Number for Information

(954) 587-6280

Ft. Lauderdale, FL 33314

Date Prepared

December 6, 1996

Signature of Preparer (optional)

Jeff Tieger

Section II -- Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Methyltriacetoxysilane CAS No. 004253343				2
Ethyltriacetoxysilane CAS No. 017689779				2
Silica CAS No. 007631869			TLV 10 MG/M3	9
NON HAZARDOUS INGREDIENT: Polydimethylsiloxane				85

Section III -- Physical/Chemical Characteristics

Boiling Point	N/A	Specific Gravity (H ₂ O = 1)	1.04 8.68# / gal
Vapor Pressure (mm Hg.)	< 5 mm	Melting Point	N/A
Vapor Density (AIR = 1)	N/A	Evaporation Rate (etcher. 1)	< 1
Solubility in Water	< 0.1%	V.O.C.	< 5%
Appearance and Odor	Acetic acid-like paste		

Section IV -- Fire and Explosion Hazard Data

Flash Point (Method Used)	Flammable Limits	LEL	UEL
> 212°F / 100°C Open cup	Not determined		

Extinguishing Media

Water, water fog, CO₂, dry chemical, foam

Special Fire Fighting Procedures

Self-contained breathing apparatus and protective clothing should be worn in fighting fires involving chemicals.

Unusual Fire and Explosion Hazards

None known.

Section V -- Reactivity Data

Stability	Unstable		Conditions to Avoid Air or moisture causes polymerization and acetic acid vapors are formed.
	Stable	XX	

Compatibility (Materials to Avoid)

Oxidizing material can cause a reaction.

Hazardous Decomposition or Byproducts

Silicon dioxide, carbon dioxide, and traces of incompletely burned carbon products.

Hazardous Polymerization

May Occur

Will Not Occur

XX

Conditions to Avoid
None.

Section VI -- Health Hazard Data

Route(s) of Entry:

Inhalation?

Yes

Skin?

Yes

Ingestion?

Yes

Health Hazards (Acute and Chronic)

None known

Carcinogenicity:

NTP?

No

IARC Monographs?

No

OSHA Regulated?

No

Signs and Symptoms of Exposure

INGESTION: May cause stomach discomfort. SKIN CONTACT: Uncured product may irritate lips, gums, tongue, and skin. EYE CONTACT: Uncured product contact irritates eyes.

Medical Conditions

Generally Aggravated by Exposure

NONE KNOWN

Emergency and First Aid Procedures

INGESTION: Flush with water for 15 minutes. Obtain medical attention. SKIN: Wipe off and flush with water.

INHALATION: Remove to fresh air. Obtain medical attention. ORAL: Obtain medical attention.

Section VII -- Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled

Remove product and use absorbent material to take care of any oil-like residues.

Waste Disposal Method

Review all local, state, and federal regulations concerning health and pollution to determine approved

disposal method.

Precautions to Be Taken in Handling and Storing

Store below 90°F. Use reasonable care and caution.

Other Precautions

None known.

Section VIII -- Control Measures

Respiratory Protection (Specify Type)

Shield gas/organic vapor type.

Ventilation	Local Exhaust None	Special N/A
	Mechanical (General) None	Other N/A

Protective Gloves

chemical workers gloves.

Eye Protection

Use proper eye protection, safety glasses as minimum.

Other Protective Clothing or Equipment

None

Work Hygienic Practices

Cross amounts of material should be removed from the skin as soon as practical, especially before eating or

drinking.

MATERIAL SAFETY DATA SHEET

I00207

1084912

PAINT, SPRAY ROYAL BLUE "Great Day"

UU

MANUFACTURER'S NAME
 SHERWIN-WILLIAMS DIVERSIFIED BRANDS, INC
 636 E. 40TH ST.
 Holland, MI 49423

EMERGENCY TELEPHONE NO.
 (216) 566-2917

DATE OF PREPARATION
 10-JUL-97

INFORMATION TELEPHONE NO.
 (616) 392-7811

Section I -- PRODUCT IDENTIFICATION

PRODUCT NUMBER

HMIS CODES

I00207

Health 2
 Flammability 4
 Reactivity 0

PRODUCT NAME

707 GD ROYAL BLUE

PRODUCT CLASS

Aerosol Specialty Product

Section II -- HAZARDOUS INGREDIENTS

INGREDIENT CAS No.	% by WT	ACGIH TLV	OSHA PEL	UNITS	V.P.
Propane 74-98-6	14		1000	PPM	760.00
Butane 106-97-8	13	800	800	PPM	760.00
Toluene 100-41-4	4	100 STEL	100 125	PPM PPM	7.10
Xylene 1330-20-7	21	100 STEL	100 150	PPM PPM	5.90
Acetone 67-64-1	36	750 STEL	750 1000	PPM PPM	180.00

Section III -- PHYSICAL DATA

PRODUCT WEIGHT -- 6.14 lb./gal. EVAPORATION RATE -- Faster than Ether
 SPECIFIC GRAVITY -- 0.74 VAPOR DENSITY -- Heavier than Air
 BOILING POINT -- <0 -292 F MELTING POINT -- N.A.
 VOLATILE VOLUME -- 92 % SOLUBILITY IN WATER -- N.A.
 VOLATILE WEIGHT -- 52.24 % (less Federally Exempt Solvents)
 HMIS -- 2 4 0

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT
 Propellant < 0 F LEL 1.0 UEL 12.8
 EXTINGUISHING MEDIA
 Carbon Dioxide, Dry Chemical, Foam

Continued on page 2

I00207

page 2

UNUSUAL FIRE AND EXPLOSION HAZARDS

Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V -- HEALTH HAZARD DATA

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

ACUTE Health Hazards

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

If, in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If SWALLOWED: Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give conscious patient several glasses of water. Seek medical attention.

CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen. Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary and reproductive systems. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section VI -- REACTIVITY DATA

STABILITY -- Stable.

CONDITIONS TO AVOID

None known.

COMPATIBILITY

None known.

Continued on page 3

I00207

page 3

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

Section VII -- SPILL OR LEAK PROCEDURES**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED**

Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Do not incinerate. Depressurize container. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII -- PROTECTION INFORMATION**PRECAUTIONS TO BE TAKEN IN USE**

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

PROTECTIVE GLOVES

None required for normal application of aerosol products where minimal skin contact is expected. For long or repeated contact, wear chemical resistant gloves.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

Section IX -- PRECAUTIONS**POLYSTORAGE CATEGORY**

1A

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Keep away from heat, sparks, and open flame. Vapors will accumulate readily and may ignite explosively.

During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved Bonding and Grounding procedures.

Contents under pressure. Do not puncture, incinerate, or expose to temperature above 120F. Heat from sunlight, radiators, stoves, hot water, and other heat sources could cause container to burst. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Continued on page 4

I00207

page 4

Section X -- OTHER REGULATORY INFORMATION

2A 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
100-41-4	Ethylbenzene	4	
1330-20-7	Xylene.	21	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

15-110

1084920

(Sealer) STAIN, MAPLE WIPING

A48V111
09 00

MANUFACTURER'S NAME
THE SHERWIN-WILLIAMS COMPANY
101 Prospect Avenue N.W.
Cleveland, OH 44115

EMERGENCY TELEPHONE NO.
(216) 566-2917

1 GAL.

DATE OF PREPARATION
10-JUL-97

INFORMATION TELEPHONE NO.
(216) 566-2902

Section I -- PRODUCT IDENTIFICATION

PRODUCT NUMBER

HMIS CODES

A48V111

Health 2
Flammability 3
Reactivity 0

PRODUCT NAME

Oil Stain, Clear Base and Sealer

PRODUCT CLASS

Alkyd Stain

Section II -- HAZARDOUS INGREDIENTS

INGREDIENT CAS No.	% by WT	ACGTH TLV	OSHA PEL	UNITS	V.P.
Mineral Spirits. 64742-88-7	65	100	100 PPM		2.00
Mineral Spirits 140-Flash. 64742-88-7	11	100	100 PPM		0.50
Toluene. 108-88-3	3 STEL	50	100 PPM (Skin) 150 PPM (Skin)		22.00

Section III -- PHYSICAL DATA

PRODUCT WEIGHT --- 6.76 lb./gal. EVAPORATION RATE -- Slower than Ether
 SPECIFIC GRAVITY -- 0.81 VAPOR DENSITY -- Heavier than Air
 BOILING POINT -- 222-416 F MELTING POINT -- N.A.
 VOLATILE VOLUME -- 85 % SOLUBILITY IN WATER -- N.A.
 VOC (Theoretical) -- 5.47 lb. ^{90.9%} 656 gm. (less Federally Exempt Solvents)

Section IV -- FIRE AND EXPLOSION HAZARD DATA

FLASH POINT 95 F PMCC LEL 0.9 UEL 7.0
 FLAMMABILITY CLASSIFICATION
 RED LABEL -- Flammable, Flash below 100 F
 EXTINGUISHING MEDIA
 Carbon Dioxide, Dry Chemical, Foam

Continued on page 2

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UNUSUAL FIRE AND EXPLOSION HAZARDS

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Obtain medical attention.

SPECIAL FIRE FIGHTING PROCEDURES

Full protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

=====

Section V -- HEALTH HAZARD DATA

ROUTES OF EXPOSURE

Exposure may be by INHALATION and/or SKIN or EYE contact, depending on conditions of use. To minimize exposure, follow recommendations for proper use, ventilation, and personal protective equipment.

ACUTE Health Hazards

EFFECTS OF OVEREXPOSURE

Irritation of eyes, skin and respiratory system. May cause nervous system depression. Extreme overexposure may result in unconsciousness and possibly death.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mists.

Redness and itching or burning sensation may indicate eye or excessive skin exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES

If INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.

If on SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing and launder before re-use.

If in EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

If SWALLOWED: Never give anything by mouth to an unconscious person. DO NOT INDUCE VOMITING. Give conscious patient several glasses of water. Seek medical attention.

CHRONIC Health Hazards

No ingredient in this product is an IARC, NTP or OSHA listed carcinogen.

Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, cardiovascular and reproductive systems.

Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

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Section VI -- REACTIVITY DATA

STABILITY -- Stable

CONDITIONS TO AVOID

None known.

Continued on page 3

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INCOMPATIBILITY

None known.

HAZARDOUS DECOMPOSITION PRODUCTS

By fire: Carbon Dioxide, Carbon Monoxide

HAZARDOUS POLYMERIZATION

Will not occur

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Section VII -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Remove all sources of ignition. Ventilate and remove with inert absorbent.

WASTE DISPOSAL METHOD

Waste from this product may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Waste must be tested for ignitability to determine the applicable EPA hazardous waste numbers.

Incinerate in approved facility. Do not incinerate closed container.

Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

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Section VIII -- PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE

Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.

This coating may contain materials classified as nuisance particulates (listed "as Dust" in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TLV 10 mg./m3 (total dust), 3 mg./m3 (respirable fraction), OSHA PEL 10 mg./m3 (total dust), 5 mg./m3 (respirable fraction).

VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION

If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES

Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION

Wear safety spectacles with unperforated sideshields.

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Section IX -- PRECAUTIONS

HAZARD STORAGE CATEGORY

1C

Continued on page 4

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Contents are FLAMMABLE. Keep away from heat, sparks, and open flame.
During use and until all vapors are gone: Keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.
Consult NFPA Code. Use approved Bonding and Grounding procedures.
Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS

Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

Section X -- OTHER REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION

CAS No.	CHEMICAL/COMPOUND	% by WT	% Element
108-88-3	Toluene.	3	

CALIFORNIA PROPOSITION 65

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

TSCA CERTIFICATION

All chemicals in this product are listed, or are exempt from listing, on the TSCA Inventory.

The above information pertains to this product as currently formulated, and is based on the information available at this time. Addition of reducers or other additives to this product may substantially alter the composition and hazards of the product. Since conditions of use are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information.

MATERIAL SAFETY DATA SHEET

0.04

Manufacturer: Star brite
4041 S. W. 47 Avenue
Ft. Lauderdale, FL 33314

Emergency Phone: 1-800-424-9300
Information Phone: 1-954-587-8280
Contact: Jeff Tieger

1096072

Date: August 29, 1997

SECTION I - GENERAL INFORMATION

PRODUCT NAME: Star brite Silicone Sealant
PRODUCT NO: 82101, 82102, 82103, 82121, 82122, 82123, 82182 - 2
PROPER SHIPPING NAME: None
D.O.T. HAZARD NAME (49 CFR 172.101): None
D.O.T. ID NO. (49 CFR 172.101): None
RCRA HAZARD CLASS (40 CFR 261) (IF DISCARDED): None
E.P.A. PRIORITY POLLUTANTS (40 CFR 122.53): None
NFPA = NATIONAL FIRE PROTECTION ASSOCIATION - 704
HEALTH (NFPA): 1 FLAMMABILITY (NFPA): 1 REACTIVITY (NFPA): 0
CAS NO: MIXTURE
GENERIC DESCRIPTION: SILICONE A

SECTION II - HAZARDOUS INGREDIENTS DEFINED IN 29 CFR 1910.1200
(CARCINOGENS DEFINED WITH AN ASTERISK*)

CAS #	004253343	017689779	007631869
INGREDIENT	METHYLTRACETOXY-SILANE	ETHYLTRACETOXY-SILANE	AMORPHOUS SILICA
T(%)	2	2	11
EXPOSURE LIMITS	SEE COMMENT BELOW	SEE COMMENT BELOW	OSHA PEL; TWA 6MG/M3; ACGIH TLV: TWA 10 MG/M3 TOTAL DUST
COMMENT:	OBSERVE LIMITS FOR ACETIC ACID FORMED DURING CURING ON EXPOSURE TO WATER OR HUMID AIR.		
OSAH PEL:	TWA 10 PPM. ACGIH TLV: TWA 10 PPM, STEL 15 PPM.		

SECTION III - EFFECTS OF OVEREXPOSURE

EYES: DIRECT CONTACT IRRITATES SLIGHTLY TO MODERATELY WITH REDNESS AND SWELLING.
SKIN: A SINGLE SHORT EXPOSURE (LESS THAN 24 HOURS) MAY IRRITATE. REPEATED, PROLONGED CONTACT (24 TO 48 HOURS) MAY IRRITATE MODERATELY.
INHALATION: VAPOR OVEREXPOSURE MAY IRRITATE EYES, NOSE AND THROAT.
ORAL: SMALL AMOUNTS TRANSFERRED TO THE MOUTH BY FINGERS DURING USE, ETC., SHOULD NOT INJURE. SWALLOWING LARGE AMOUNTS MAY CAUSE DIGESTIVE DISCOMFORT.
COMMENT: NO INJURY FROM DUSTS SHOULD OCCUR DURING REASONABLE USE. IF USE CREATES RESPIRABLE PARTICLES, SOME RESPIRATORY SYSTEM INJURY MAY OCCUR. CURED SEALANT IS NONHAZARDOUS. THIS PRODUCT, AS WITH ANY CHEMICAL, MAY ENHANCE ALLERGIC CONDITIONS ON CERTAIN PEOPLE. WE DO NOT KNOW OF ANY MEDICAL CONDITIONS THAT MIGHT BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

MATERIAL SAFETY DATA SHEET

Manufacturer: Star brite
4041 S. W. 47 Avenue
Ft. Lauderdale, FL 33314

Emergency Phone: 1-800-424-9300
Information Phone: 1-954-587-6280
Contact: Jeff Tieger

SECTION IV - EMERGENCY FIRST AID PROCEDURES

EYES: IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.
SKIN: GET MEDICAL ATTENTION IF IRRITATION DEVELOPS.
INHALATION: REMOVE TO FRESH AIR.
ORAL: NO FIRST AID SHOULD BE NEEDED.
COMMENTS: NONE

SECTION V - FIRE AND EXPLOSION DATA

FLASH POINT (METHOD USED): OPEN CUP ABOVE 250F/120C
AUTO IGNITION: NOT DETERMINED
FLAMMABILITY LIMITS IN AIR: LOWER: NOT DETERMINED HIGHER: NOT DETERMINED
EXTINGUISHING MEDIA: WATER, WATER FOG, CO₂, DRY CHEMICAL, FOAM, OTHER
SPECIAL FIRE PROCEDURES: SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING SHOULD BE WORN IN FIGHTING FIRES INVOLVING CHEMICALS.
UNUSUAL FIRE AND EXPLOSION HAZARDS: NONE KNOWN TO STAR BRITE
COMMENTS: NONE

SECTION VI - PHYSICAL DATA

BOILING POINT (AT 760 MM HG): NOT APPLICABLE
SPECIFIC GRAVITY (AT 77° F/25° C): 1.04
MELTING POINT: NOT APPLICABLE
VAPOR PRESSURE (AT 77° F/25° C): LESS THAN 5 MM
VAPOR DENSITY (AIR=1 AT 77° F/25° C): ABOVE 1
PERCENT VOLATILE BY WEIGHT (%): LESS THAN 5
EVAPORATION RATE (ETHER)=1): NOT APPLICABLE
SOLUBILITY IN WATER (%): LESS THAN 0.1
ODOR, APPEARANCE, COLOR: ACETIC ACID-LIKE, PASTE, CLEAR

NOTE: The above information is not intended for use in preparing product applications. Contact Star brite before writing specifications.

SECTION VII - REACTIVITY DATA

STABILITY: STABLE
INCOMPATIBILITY (MATERIAL TO AVOID): OXIDIZING MATERIAL CAN CAUSE A REACTION.
CONDITIONS TO AVOID: AIR OR MOISTURE CAUSES CURING AND ACETIC ACID VAPORS FORM.
HAZARDOUS DECOMPOSITION PRODUCTS: SILICON DIOXIDE, CARBON DIOXIDE AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: NOT APPLICABLE
COMMENTS: NONE

MATERIAL SAFETY DATA SHEET

Manufacturer: Star brite
 4041 S. W. 47 Avenue
 Ft. Lauderdale, FL 33314

Emergency Phone: 1-800-424-9300
Information Phone: 1-954-587-6280
Contact: Jeff Tieger

SECTION VIII - SPILL, LEAK, MAINTENANCE, REPAIR AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: REMOVE PRODUCT AND CONTAIN FOR SALVAGE OR DISPOSAL

PROTECTIVE EQUIPMENT:

EYES: USE PROPER PROTECTION - SAFETY GLASSES, AS A MINIMUM.
SKIN: WASHING AT MEAL TIME AND END OF SHIFT IS ADEQUATE. REMOVE CONTAMINATED CLOTHING AND SHOES AS SOON AS PRACTICAL AND CLEAN THOROUGHLY BEFORE REUSE. RUBBER OR PLASTIC GLOVES ARE RECOMMENDED.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

WASTE DISPOSAL METHOD: STAR BRITE SUGGESTS THAT ALL LOCAL, STATE AND FEDERAL REGULATIONS CONCERNING HEALTH AND POLLUTION BE REVIEWED TO DETERMINE APPROVED DISPOSAL PROCEDURES. CONTACT STAR BRITE IF THERE ARE ANY DISPOSAL QUESTIONS.

D.O.T. (49 CFR 171.8)/E.P.A.(40 CFR 117) SPILL REPORTING INFORMATION

HAZARDOUS SUBSTANCE: NONE
REPORTABLE QUANTITY: NOT APPLICABLE
CONCENTRATION OF HAZARDOUS SUBSTANCE: NOT APPLICABLE
REPORTABLE QUANTITY OF PRODUCT: NOT APPLICABLE
COMMENTS: PRODUCT CONTAINS NO INGREDIENT SUBJECT TO D.O.T. OR E.P.A. CERCLA/SARA ENVIRONMENTAL RELEASE REPORTING REGULATIONS. SEE SEC. XI FOR ADDITIONAL SARA COMPLIANCE INFORMATION.

SECTION IX - ROUTINE HANDLING PRECAUTIONS

PROTECTIVE EQUIPMENT:

EYES: USE PROPER PROTECTION - SAFETY GLASSES AS A MINIMUM
SKIN: WASHING AT MEAL TIME AND END OF SHIFT IS ADEQUATE. REMOVE CONTAMINATED CLOTHING AND SHOES AS SOON AS PRACTICAL AND CLEAN THOROUGHLY BEFORE REUSE. RUBBER OR PLASTIC GLOVES ARE RECOMMENDED.

INHALATION: USE RESPIRATORY PROTECTION UNLESS LOCAL EXHAUST VENTILATION IS ADEQUATE OR AIR SAMPLING DATA SHOW EXPOSURES ARE WITHIN TLV AND PEL GUIDELINES.

VENTILATION:

LOCAL EXHAUST: MAY BE NEEDED
MECHANICAL (GENERAL) RECOMMENDED

SUITABLE RESPIRATOR: ACID GAS/ORGANIC VAPOR TYPE
COMMENTS: AVOID BREATHING VAPORS AND EYE AND SKIN CONTACT. USE ONLY WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.

These precautions are for room temperature handling. If used at elevated temperature, aerosol and spray applications may require added precautions. Good practice requires that gross amounts of any chemical be removed from the skin as soon as practical, especially before eating or smoking.

SECTION 08 SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Use with adequate ventilation. Respirators with organic vapor cartridges or self contained breathing apparatus may be used in confined areas.

VENTILATION: Local exhaust or general mechanical sufficient to prevent accumulation of fumes.

PROTECTION GLOVES: Wear resistant gloves such as BUNA-N, plastic, or rubber.

EYE PROTECTION: Goggles.

OTHER PROTECTIVE EQUIPMENT: Protective clothing to prevent skin contact.

SECTION 09 SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING & STORING: Protect containers from physical damage. Keep container closed when not in use. For safety, store at temperature not exceeding 180-F away from sparks or flame. For maximum storage life store at less than 90-F. Do not breathe vapors. Avoid skin and eye contact. Do not take internally.

THIS INFORMATION IS FURNISHED WITHOUT WARRANTY, REPRESENTATION, INDUCEMENT OR LICENSE OF ANY KIND, EXCEPT THAT IT IS ACCURATE TO THE BEST OF STAR BRITE'S KNOWLEDGE OR OBTAINED FROM SOURCES BELIEVED BY STAR BRITE TO BE ACCURATE. STAR BRITE ASSUMES NO LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THESE DATA.

UNOCAL 76
UNOCAL CHEMICALS DIVISION
PETROCHEMICALS GROUP

104415
Page 1
Issue Date: 11/28/90

Product Name: ETHANOL D-2 190
Product Code No: 26456

MANUFACTURER

UNOCAL CHEMICALS DIVISION
UNION OIL COMPANY OF CALIFORNIA
1345 N. MEACHAM
SCHAUMBURG, ILLINOIS 60196

Transportation Emergencies:
Call CHEMTREC
(800) 424-9300 Cont. U.S.
(202) 483-7616 (Collect)
from Alaska & Hawaii
Health Emergencies:
CALL LOS ANGELES POISON
INFORMATION CENTER (24 hrs.)
(800) 356-3129

CONTACTS FOR FURTHER INFORMATION:
SEE LAST PAGE

6.72 lbs gal
2,30-A

PRODUCT IDENTIFICATION

PRODUCT NAME: ETHANOL D-2 190
GENERIC NAME: VOLATILE SOLVENT
DOT PROPER SHIPPING NAME: DENATURED ALCOHOL (BOAT STOVE ALCOHOL)
ID NUMBER: NA1986
DOT HAZARD CLASSIFICATION: FLAMMABLE LIQUID

1104843

SECTION I - HAZARDOUS INGREDIENTS/EXPOSURE LIMITS

HAZARDOUS INGREDIENTS	CAS NUMBER	TLV/PEL	UNITS	AGENCY	TYPE	
METHANOL	67-56-1	200	PPM	OSHA	TWA	
		(SKIN)	250	PPM	ACGIH	STEL
		(SKIN)	250	PPM	OSHA	STEL
		(SKIN)	200	PPM	ACGIH	TWA
		(SKIN)	1000	PPM	CAL OSHA	CEIL
		(SKIN)	200	PPM	CAL OSHA	TWA
DISTILLED WATER	7732-18-5	NONE				
ETHANOL SDA-3A	NONE	NONE				
ETHANOL	64-17-5	1000	PPM	OSHA	TWA	
		1000	PPM	ACGIH	TWA	
		1000	PPM	MSHA	TWA	
		1000	PPM	CAL OSHA	TWA	
METHYL ISOBUTYL KETONE	108-10-1	50	PPM	OSHA	TWA	
		50	PPM	ACGIH	TWA	
		75	PPM	ACGIH	STEL	
		75	PPM	OSHA	STEL	
		100	PPM	MSHA	TWA	
		50	PPM	CAL OSHA	TWA	

SECTION IA - THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372:

LISTED INGREDIENTS	CAS NUMBER	WEIGHT PERCENT RANGE
METHANOL	67-56-1	15.16 - 16.92
METHYL ISOBUTYL KETONE	108-10-1	0.99 - 1.00

FEB-03-1997 10:58 FROM AIM SUPPLY CO.

TO

9140745565650579 P.02

Product Name: ETHANOL D-2 190
Product Code No: 26456

Page 2

Issue Date: 11/28/90

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

*** EMERGENCY ***

Have physician call LOS ANGELES POISON
INFORMATION CENTER (24 hrs.) (800) 356-3129

EYE CONTACT:

Move victim away from exposure and into fresh air. If irritation or redness develops, flush eyes with clean water and seek medical attention. For direct contact, hold eyelids apart and flush the affected eye(s) with clean water for at least 15 minutes. Seek medical attention.

SKIN CONTACT:

Remove contaminated shoes and clothing and cleanse affected area(s) thoroughly by washing with mild soap and water. If irritation or redness develops and persists, seek medical attention.

INHALATION (BREATHING):

If respiratory symptoms or other symptoms of exposure develop, move victim away from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, immediately begin artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

INGESTION (SWALLOWING):

If swallowed, seek emergency medical attention. If victim is drowsy or unconscious, place on the left side with the head down and do not give anything by mouth. If victim is conscious and alert, vomiting should be induced for ingestions of more than 1 swallow (1-2 tablespoons for an adult) preferably with syrup of ipecac under direction from a physician or poison center. If syrup of ipecac is not available, vomiting can be induced by gently placing 2 fingers in the back of the throat. If possible, do not leave victim unattended.

REMARKS:

Note to Physicians: This product contains methanol. Methanol is metabolized to formaldehyde and formic acid. This in turn may cause metabolic acidosis, visual disturbances and blindness. Because metabolism must occur before the toxic effects, the onset of toxic symptoms may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis.

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

EYE CONTACT:

One or more components of this material is an eye irritant. Direct contact with the liquid or exposure to vapors or mists may cause stinging, tearing, redness and swelling.

SKIN CONTACT:

One or more components of this material may cause mild skin irritation. Prolonged or repeated contact or exposure to vapors or mists may cause redness, burning and drying and cracking of the skin.

SKIN ABSORPTION:

Contact may result in skin absorption but symptoms of toxicity are not anticipated by this route alone under normal conditions of use. Persons with pre-existing skin disorders may be more susceptible to the effects of this material.

INHALATION (BREATHING):

While this material has a low degree of toxicity, breathing high concentrations of vapors or mists may cause:

Irritation of the nose and throat.

Signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination and fatigue).

Nausea and vomiting.

Respiratory symptoms associated with pre-existing lung disorders (e.g., asthma-like conditions) may be aggravated by exposure to this material.

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

(Continued)

INGESTION (SWALLOWING):

One or more components of this material is toxic and may be harmful if swallowed. Effects of overexposure may include:

Irritation of the digestive tract.

Signs of nervous system depression (e.g., headache, drowsiness, dizziness, loss of coordination, and fatigue).

Visual disturbances.

(Including blindness).

Convulsions.

Coma.

Death.

Vomiting.

Drunkenness.

Stupor.

COMMENTS:

Methanol, a component of this product, causes harm to the fetus in laboratory animal studies. The relevance of these findings to humans is uncertain.

Consumption of alcoholic beverages has been identified as a human cancer hazard by IARC. Ethanol, a component of this product, is the same alcohol found in alcoholic beverages. However, the alcohol in this product has been denatured making it unfit to drink. Long term ingestion of large quantities of ethanol has also been associated with liver damage, irreversible changes in the genetic material (DNA) of a cell, and adverse effects on the reproductive system and developing fetus. Such effects have not been reported nor are expected from normal occupational exposures to ethanol.

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage (sometimes referred to as Solvent or Painters' Syndrome). Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION:

If current ventilation practices are not adequate to maintain airborne concentrations below established exposure limits (see Section I), additional ventilation or exhaust systems may be required. Where explosive mixtures may be present, electrical systems safe for such locations must be used.

RESPIRATORY PROTECTION:

The use of respiratory protection is advised when concentrations exceed the established exposure limits, (See Section I). Depending on the airborne concentration, use a respirator or gas mask with appropriate cartridges and canisters (NIOSH approved, if available) or supplied air equipment.

PROTECTIVE GLOVES:

The use of gloves impermeable to the specific material handled is advised to prevent skin contact and possible irritation.

EYE PROTECTION:

Approved eye protection to safeguard against potential eye contact, irritation or injury is recommended.

OTHER PROTECTIVE EQUIPMENT:

It is suggested that a source of clean water be available in the work area for flushing eyes and skin. Impervious clothing should be worn as needed.

FEB-03-1997 10:59 FROM AIM SUPPLY CO.

TO 9140745565650579 P.04

Product Name: ~~XXXXXXXXXX~~
Product Code No: 26456

Issue Date: 11/28/90

ON V - REACTIVITY DATA
-----STABILITY:
Stable

INCOMPATIBILITY (MATERIALS TO AVOID):

This product forms combustible and/or explosive mixtures with air and/or oxygen.

This product is incompatible with:

Oxidizing Agents
Strong Acids or Bases
Alkali Metals
Anhydrides
Isocyanates
Halogens
Organometallic Contaminants

HAZARDOUS DECOMPOSITION PRODUCTS:

Thermal decomposition in the presence of air may yield carbon monoxide and/or carbon dioxide.

HAZARDOUS POLYMERIZATION:

Will Not Occur

SECTION VI - SPILL OR LEAK PROCEDURES*** HIGHWAY OR RAILWAY SPILLS ***
Call CHEMTREC (800) 424-9300 Cont. U.S.
(Collect) (202) 483-7616 from Alaska & Hawaii

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

Keep all sources of ignition and hot metal surfaces away from spill/release. Stay upwind and away from spill/release. Isolate hazard area and limit entry to emergency crew. Stop spill/release if it can be done without risk. Wear appropriate protective equipment including respiratory protection as conditions warrant (see section IV). Prevent spilled material from entering sewers, storm drains, other unauthorized treatment drainage systems, and natural waterways. Dike far ahead of spill for later recovery or disposal. Spilled material may be absorbed into an appropriate absorbent material. Notify fire authorities and appropriate federal, state and local agencies. Immediate cleanup of any spill is recommended. If spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center (phone number 800-424-8802).

(METHANOL) DOT/CERCLA Reportable Quantity 31056 LB.

WASTE DISPOSAL METHOD:

Dispose of product in accordance with local, county, state, and federal regulations.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

Keep containers tightly closed, cool, dry and away from all sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. Bond and ground equipment when transferring to another container. "Empty" containers retain residue (liquid and/or vapor) and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks or other sources of ignition; they may explode and cause injury or death. "Empty" drums should be completely drained, properly bunged and promptly shipped to the supplier or drum reconditioner. All other containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations. Before working on or in tanks which contain or have contained this product, refer to occupational safety and health administration regulations, ANSI Z49.1 and other governmental and industrial references pertaining to cleaning, repairing, welding or other contemplated operations.

FEB-03-1997 11:00 FROM AIM SUPPLY CO.

TO

9140745565650579 P.05

Product Name: ETHANOL D-2 190
Product Code No: 26456

Issue Date: 11/28/90

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

NFPA HAZARD CLASS	HEALTH HAZARD: 1	HAZARD RANKING 0 = LEAST 1 = SLIGHT 2 = MODERATE 3 = HIGH 4 = EXTREME	HMIS HAZARD CLASS	HEALTH HAZARD: 2*
	FLAMMABILITY: 3			FLAMMABILITY: 3
	REACTIVITY: 0			REACTIVITY: 0
	OTHER: -			OTHER: -

LOWER - UPPER EXPLOSIVE LIMIT (% VOL.): 1.4 - 36.0
* Long Term Health EffectFLASH POINT (Deg. Fahr.): 52
(ESTIMATED)

EXTINGUISHING MEDIA:

Extinguish with dry chemical, CO2 or a universal type foam.

FIRE AND EXPLOSION HAZARDS:

This material is flammable and may be ignited by heat, sparks, flames, or other sources of ignition (e.g. static electricity, pilot lights, or mechanical/electrical equipment). Vapors may travel considerable distances to a source of ignition where they may ignite, flashback, or explode. May create vapor/air explosion hazard indoors, outdoors, or in sewers. Vapors are heavier than air and may accumulate in low areas. If container is not properly cooled, it may explode in the heat of a fire.

FIRE FIGHTING PROCEDURES:

Wear appropriate protective equipment including respiratory protection as conditions warrant (see section IV). Stop spill/release if it can be done without risk. Move undamaged containers from fire area if it can be done without risk. Water spray may be useful in minimizing or dispersing vapors and cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water used for cooling purposes.

SECTION IX - PHYSICAL DATA

<u>APPROX. BOILING POINT (Deg. Fahr.)</u>	<u>RELATIVE EVAP. RATE</u> (n-BuOAc = 1)	<u>VAPOR PRESSURE</u>
148 - 242	2.00 (Estimated)	50.4 mm Hg @20 C (Est.)
<u>% VOLATILE</u>	<u>% SOLUBILITY IN WATER</u>	<u>VAPOR DENSITY</u>
100.0 (Estimated)	99.0 (Estimated)	1.50
<u>SPECIFIC GRAVITY (60F/60F)</u>	<u>APPEARANCE</u>	<u>ODOR</u>
0.805 (Estimated)	Clear, little if any color	Characteristic

FEB-03-1997 11:01 FROM AIM SUPPLY CO.
 Product Code No: 26456

TO 9140745565650579 P.01

Page 0
 Issue Date: 11/28/90

SECTION X - DOCUMENTARY INFORMATION

ISSUE DATE: 11/28/90
 ISSUE # 5

PREV. DATE: 05/14/90
 PREV. # 4

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued.
 HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE.
 This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

FOR FURTHER INFORMATION, CONTACT YOUR LOCAL SALES OFFICE

ATLANTA	(404) 934-0343 (800) 633-2362	DALLAS/FT. WRTH(214)	298-8233	NY/NJ (NY Only)	(201) 574-9890 (800) 526-4376
MORE (outside MD)	(301) 355-2737 (800) 638-7676	DETROIT	(313) 772-0870	PHILADELPHIA CONSHOHOCKEN	(215) 753-1903 (215) 828-1010
BIRMINGHAM (outside AL) (inside AL)	(205) 995-9776 (800) 328-1611 (800) 328-1610	HOUSTON	(713) 643-3517	NEW ENGLAND	(401) 438-7240 (800) 523-0725
CHARLOTTE (NC Only) (SC, GA, VA)	(704) 588-2633 (800) 532-6103 (800) 438-2968	KANSAS CITY	(816) 231-7600	SAN FRANCISCO/ OAKLAND AREA	(707) 437-4000
CHICAGO	(708) 257-9300	LOS ANGELES	(714) 228-4700	TWIN CITIES	(612) 227-8020
CINCINNATI	(513) 422-0176	FLA. (MIAMI) (FL Only) (FL Only)	(305) 634-2411 (800) 621-3841 (800) 282-0537	WICHITA	(316) 838-3335
CLEVELAND	(216) 425-4600	NASHVILLE (TN Only)	(615) 320-5474 (800) 325-7685		

545.5664

Post-It™ brand fax transmittal memo 7671 # of pages > 25

To VANESSA	From JIM
Co. NESTOR	Co. KARDOL
Dept.	Phone #
Fax #	Fax #

APPROVED CHEMICAL MRP NUMBER REQUEST

 MODEL YEAR AFFECTED

(1104843) NEW MRP NUMBER

194415 CURRENT/CLONE FROM

025.1030 COMM/SUB-COMM

DESCRIPTION: Alcohol, Denatured

VENDOR NUMBER/NAME

6156 / Aim Supply

A UOM / MODELS AFFECTED

COST: \$ 5.32

VEND PART NO: MP- 505022

PLEASE FILL IN FIRST INITIAL OF INVENTORY TYPE CODE

(A)SSEMBLED PART; (C)LEANERS; (E)NGINES; (F)UEL/GAS/OIL; (H)EALTH& SAFETY; FORK(L) EXP; REPAIR&(M)AIN; (O)FFICE; (R)AW MAT'L; (S)&E; PERISHABLE
(T)OOLS; (U)NIFORMS & RAGS

REASON FOR REQUEST: Chemical Change

MATERIAL SAFETY DATA SHEET
Gruber Care X-Wax [02213] [02214] [02215] [02216]



7-09-1997 6:53AM FROM GRUBER EAST 407 639 0437

Post-it [®] Fax Note	7671	Date	7/9	# of pages	2
To	Rosalva	From	Andrea		
Co./Dept.	Sea Ray Boat	Co.	Gruber East		
Phone #		Phone #			
Fax #	453-2006	Fax #			

1105485 P.1
639-0431

X-WAX

MATERIAL SAFETY DATA SHEET



MANUFACTURER'S NAME: Gruber Systems, Inc.
 ADDRESS: 25636 Avenue Stanford
 Valencia, CA 91355 USA
 EMERGENCY TELEPHONE: 1-800-255-3924 (CHEM-TEL)
 TELEPHONE NUMBER FOR INFORMATION: 1-805-257-4060
 DATE: January 14, 1993

25636 Avenue Stanford
 Valencia, CA 91355 U.S.A.
 Tel: (805) 257-4060
 FAX: (805) 257-4791
 Telex: 691419

Hazard Rating
 Minimal.....0
 Slight.....1
 Moderate....2
 Serious.....3
 Severe.....4

Health	0
Flammability	2
Reactivity	0

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME & NUMBER: Gruber Care X-Wax [02213] [02214] [02215] [02216]

CHEMICAL NAME: Wax Mixture

*soft x-wax
12 pps*

X-wax is a blend of bee's and vegetable waxes to make it usable as an extrudable tooling wax fillet material. The product is essentially inert but will burn like candle wax.

SECTION II - HAZARDOUS INGREDIENTS/IDENTIFY INFORMATION

CHEMICAL NAME	CAS NO.	Percent
1. Castor Wax	123-26-2	<2
2. Castor Oil	8001-79-4	<10
3. Mineral Oil	8042-47-5	<5

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: >500°F.
 VAPOR PRESSURE: N/A
 VAPOR DENSITY: N/A
 SPECIFIC GRAVITY: 0.95
 MELTING POINT: 150-160°F.
 EVAPORATION RATE: N/A
 SOLUBILITY IN WATER: INSOLUBLE
 APPEARANCE AND ODOR: SOFT PLIABLE SOLID - SLIGHT WAX ODOR

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: N/A
 FLAMMABLE LIMITS: COMBUSTIBLE - WILL BURN LIKE CANDLE WAX
 EXTINGUISHING MEDIA:

Seawall

FAX MEMORANDUM

DATE: 7-10-97
TO: Kevin Thompson
Director of Environmental Management
FROM: George David
J.C. S.C.

APPROVED	<u>GD</u>
DATE	<u>7/11/97</u>
CODE	<u>2</u>
SRB PART NUMBER	<u>1105485</u>

SUBJECT: Hazardous Material Approval / Justification for Delisting Material

PAGES (Including Cover Sheet):

HAZARDOUS MATERIAL APPROVAL REQUEST

MATERIAL DESCRIPTION (trade name, chemical name, etc.): Gruber Care X-Wax
wax mixture

PACKAGING (55 gal. drum, 16 oz. spray can, bulk, etc.): 2 1/2 Gal. container

PROPOSED USE (include specific area in plant, whether or not material is a sample, how material will be applied (spray, brush, etc.), and anticipated usage (lb./mo.): Will be use in mold prepping area, to be use in a regular basis, by hand, ~~for~~ monthly usage estimated at 1 1/2 Gal.

JUSTIFICATION (waste reduction, cost, performance, new application, etc.) (if replacing an existing material, include MSDS of current material): New application and will reduce cost while working parts in P.T. depts.

JUSTIFICATION FOR DELISTING MATERIAL

MATERIAL DESCRIPTION (Sea Ray Part #, Part Description):

USAGE (amount, specific area in plant):

JUSTIFICATION:
(Refer to 29 CFR 1910.1200(b)(6) including untreated wood products which will not be cut or sanded, first aid supplies, consumer products used for their intended purpose and duration, and nuisance particulates)

Jan. 05 1998 10:29AM PJ

PHONE NO. : 487 639 4377

FROM : S-W 12062 CUCOR FL

SECTION I
PRODUCT IDENTIFICATION



MATERIAL SAFETY DATA SHEET

THE SHERWIN - WILLIAMS CO.
101 PROSPECT AVE. N.W.
CLEVELAND, OH 44115

EMERGENCY TELEPHONE NO.
(216) 568-2917
INFORMATION TELEPHONE NO.
(216) 568-2502

DATE OF PREPARATION
15 - Nov - 95

©1995, The Sherwin-Williams Co.

SEA RAY BOATS

407 452 3568

02/12 '98 10:38 NO.424 02/05

Strippable Coating, White

5 GAL. CONTAINER
COATING, STRIPPABLE WHITE
M69W1

1129691

Numbers In Boxes Are
Percent By Weight

SECTION II		ACGIH TLV	OSHA PEL	Units	Vapor Pressure (mm Hg)	M69W1 Strippable Coating White	MSDS Acetone
CAS No.	HAZARDOUS INGREDIENT (percent by weight)	<STEL>	<STEL>				
54742-48-8	V. M. & P. Naphtha	300	300	PPM	12.0	22	
106-98-3	Toluene	50	100	PPM (Skin)	22.0	4	
67-64-1	Acetone	750	750	PPM	190.0	24	100
75-93-3	Methyl Ethyl Ketone	200	200	PPM	70.0	10	
106-10-1	Methyl Isobutyl Ketone	50	50	PPM	16.0	10	
471-34-1	Calcium Carbonate	10	10(B)	Mg/MS as Dust (Mass Fraction)		12	
13463-87-7	Titanium Dioxide	10	10(B)	Mg/MS as Dust (Mass Fraction)		2	
Weight per Gallon (lbs.)						7.04	6.59
Solids by Weight (%)						39.0	6.0
Solids by Volume (%)						17.4	6.0
Volatile Organic Compounds (VOC - lbs./gal.)						1.36	1.56
Photochemically Reactive						Yes	No
Flash Point (°F)						6	1
HHS (NTPA) Rating (Health - Irritability - Reactivity)						2 3 0	1 3 0

Ingredient subject to the reporting requirements of the Superfund Amendments and Reauthorization Act (SARA) Section 313, 40 CFR 372.05 C

Strippable Coating, White

M65 W1

Section II - PHYSICAL DATA

PRODUCT WEIGHT - See Table	EVAPORATION RATE - Slower than Ethyl
SPECIFIC GRAVITY - 0.99-0.99	VAPOR DENSITY - Greater than Air
BOILING RANGE - 131-271 °F	MELTING POINT - N.A.
VELOCITY RANGE - 23-100 g	SOLUBILITY IN WATER - N.A.

Section IV - FIRE AND EXPLOSION HAZARD DATA

FLAMMABILITY CLASSIFICATION FLASH POINT See Table AEL 0.9 MIE 12.0
 END LABEL - Extremely Flammable, Flash below 21 °F
 GHS02 H223

Carbon Dioxide, Dry Chemical, Foam
 GENERAL FIRE AND EXPLOSION HAZARDS
 May contain tightly closed, insulate from heat, electrical equipment, sparks, and open flame. Closed containers may explode when exposed to extreme heat. Application to hot surfaces requires special precautions. During emergency conditions overexposure to decomposition products may cause a health hazard. Symptoms may not be immediately apparent. Observe medical attention.

EMERGENCY AND FIRST AID PROCEDURES
 All protective equipment including self-contained breathing apparatus should be used. Water spray may be ineffective. If water is used, fog nozzles are preferable. Water may be used to cool closed containers to prevent pressure build-up and possible autoignition or explosion when exposed to extreme heat.

Section V - HEALTH HAZARD DATA

MODES OF EXPOSURE
 Exposure may be by INHALATION and/or SKIN or EYE contact. Depending on conditions of use, to minimize exposure, follow recommendations for proper use, ventilation, and personal protection equipment.

ACUTE HEALTH HAZARDS
 EFFECTS OF OVEREXPOSURE
 Irritation of eyes, skin and respiratory system. May cause nervous system depression. Nervous overexposure may result in unconsciousness and possibly death.

SYMPTOMS AND SIGNS OF OVEREXPOSURE
 Redness and itching or burning sensation may indicate eye or excessive skin exposure. Headache, dizziness, nausea, and loss of coordination are indications of excessive exposure to vapors or spray mist.

HEALTH CONDITIONS AGGRAVATED BY EXPOSURE
 None generally recognized.

EMERGENCY AND FIRST AID PROCEDURES
 IF INHALED - If affected, remove from exposure. Restart breathing. Keep warm and quiet.
 IF ON SKIN - Wash affected area thoroughly with soap and water.
 Remove contaminated clothing and launder before re-use.
 IF IN EYES - Flush eyes with large amounts of water for 15 minutes. Get medical attention.
 IF SWALLOWED - Get medical attention.

CHRONIC HEALTH HAZARDS
 It is important in these products is an IARC, VPP, or OSHA listed carcinogen.
 Methyl Ethyl Ketone may increase the nervous system effects of other solvents.
 Prolonged overexposure to solvent ingredients in Section II may cause adverse effects to the liver, urinary, blood-forming, cardiovascular, and reproductive systems.
 Data exposed to titanium dioxide dust at 250 mg /m³ developed lung cancer, however, such exposure levels are not achievable in the workplace.
 Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage.

Section VI - REACTIVITY DATA

STABILITY - Stable
 CONDITIONS TO AVOID
 None known.

INCOMPATIBILITY
 None known.

HAZARDOUS DECOMPOSITION PRODUCTS
 By (Low Carbon Dioxide, Carbon Monoxide, Hydrogen Chloride
 HAZARDOUS POLYMERIZATION - Will Not Occur

Section VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF GASES, LIQUIDS OR SOLIDS ARE RELEASED OR SPILLED
 Remove all sources of ignition. Ventilate and remove with inert absorbent.
 BEST DISPOSAL METHOD

Waste from these products may be hazardous as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261. Waste must be tested for ignitability to determine the applicable EPA hazardous waste number. Waste from products containing Methyl Ethyl Ketone may also require testing for extractability.
 Incinerate in approved facility. Do not incinerate closed containers. Dispose of in accordance with Federal, State, and Local regulations regarding pollution.

Section VIII - PROTECTION INFORMATION

PRECAUTIONS TO BE TAKEN IN USE
 Use only with adequate ventilation. Avoid breathing vapor and spray mist. Avoid contact with skin and eyes. Wash hands after using.
 These coatings may contain materials classified as nuisance particulates (listed "as Dust" in Section II) which may be present at hazardous levels only during sanding or abrading of the dried film. If no specific dusts are listed in Section II, the applicable limits for nuisance dusts are ACGIH TWA 10 mg./m³ (total dust), OSHA PEL 15 mg./m³ (total dust), 5 mg./m³ (respirable fraction).
 VENTILATION

Local exhaust preferable. General exhaust acceptable if the exposure to materials in Section II is maintained below applicable exposure limits. Refer to OSHA Standards 1910.94, 1910.107, 1910.109.

RESPIRATORY PROTECTION
 If personal exposure cannot be controlled below applicable limits by ventilation, wear a properly fitted organic vapor/particulate respirator approved by NIOSH/MSHA for protection against materials in Section II.

When sanding or abrading the dried film, wear a dust/mist respirator approved by NIOSH/MSHA for dust which may be generated from this product, underlying paint, or the abrasive.

PROTECTIVE GLOVES
 Wear gloves which are recommended by glove supplier for protection against materials in Section II.

EYE PROTECTION
 Wear safety spectacles with unperforated side shields.

Section IX - PRECAUTIONS

DO NOT STORE IN CATEGORY - 10
 PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Containers are EXTREMELY FLAMMABLE. Keep away from heat, sparks, and open flame. During use and until all vapors are gone, keep area ventilated - Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

Consult NFPA Code. Use approved bonding and grounding procedures. Keep container closed when not in use. Transfer only to approved containers with complete and appropriate labeling. Do not take internally. Keep out of the reach of children.

OTHER PRECAUTIONS
 Intentional misuse by deliberately concentrating and labeling the contents can be harmful or fatal.

Section X - OTHER REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65
 WARNING: M65W1 contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. M65W1 contains a chemical(s) known to the State of California to cause cancer.

The above information pertains to these products as currently formulated, and is based on the information available at this time. Addition of co-solvents or other additives to these products may substantially alter the composition and hazards of the products. Since conditions of use are outside our control, we make no warranty, express or implied, and assume no liability in connection with any use of this information.

Jan. 05 1998 18:38:04 P4
 PHONE NO. : 407 639 4377
 FROM : S-W 122652 0803A FL

SEA RAY BOATS
 407 452 3568
 02/12 '98 10:39 NO.424 03/05

Strippable Coating White, M89 W 1 is a fast dry vinyl strippable coating designed to keep spray booths cleaner, brighter, easier, and for temporary protection of polished or plated surfaces.

Advantages:

- Labor savings on clean up of spray booths, conveyor hangers, etc.
- Temporary protection of polished, plated or unpainted metal and glass surfaces during storage and shipment. Can be peeled off when ready to market or use.
- White. Improves brightness of work area such as spray booths and conveyor lines.
- Retains stripping and film strength properties after recoating with paint, enamel, varnish, and lacquers.
- Easy spraying.
- Easy stripping.

Gloss: Low to semi-gloss
Volume Solids: 17.3%
Viscosity: #2 Zahn 25 to 30"
Spreading Rate: 280 sq. ft. at 1 mil, no application loss
Package Life: 2 years
Drying: Air dry at 77° F. (45% RH)
Tack Free: 20-30 minutes. Recommended 8 mils dry.
To Pack: 1 hour
To Recoat: No critical recoat.
Force Dry: Do not apply heat. Caution - Heat can destroy strippable property.
Flash Point: 67° F. Pensky-Martens Closed Cup.

Air Quality Data:

Non-Photochemically reactive. Volatile Organic Compounds (VOC) as packaged (maximum) 5.33 lb./gal. (640 gms/ltr). No reduction required. Free of lead and chromate hazards.

Product Limitations:

- 1 Not intended for "MOTHBALLING".
- 2 For interior use only.
- 3 Do not bake or apply heat.
- 4 Should not be applied over surfaces finished with paint, enamel, varnish or lacquer if the appearance of the undersurface is to be preserved.
- 5 Do not apply over plastic substrate unless thoroughly tested.
- 6 Not suitable as a masking material if the product is to be subjected to high and prolonged heat.

Surface:

Metals:

No treatment or cleaning required when intended use is for clean-up and stripping such as in spray booths.

Other Surfaces:

When the surface to be coated is not bare metal or glass, but has a protective coating like paint, enamel, varnish or lacquer, before applying M89 W 1 it should be checked on a small area for end results. The appearance of the undersurface might change due to the strong solvency of Strippable Coating, M89 W 1.

Application:

Recommended Film Thickness:
 DRY: 8 mils.

Spray:

No reduction required. Acetone R6 K 9 can be used up to 25% by volume. Use multiple passes to achieve minimum 8 mil dry film to achieve the necessary film strength for fast and complete stripping at end of service life.

Clean Up:

Acetone R6 K 9

Safety Cautions:

Contents are **EXTREMELY FLAMMABLE**. Vapors may cause flash fires. Harmful if inhaled - may affect the brain or nervous system, causing dizziness, headache or nausea. Irritates eyes, skin and respiratory tract. Harmful or fatal if swallowed. Keep away from heat, sparks and open flame. Vapors will accumulate readily and may ignite explosively. During use and until all vapors are gone: Keep area ventilated. Do not smoke - Extinguish all flames, pilot lights, and heaters - Turn off stoves, electric tools and appliances, and any other sources of ignition.

CONTAINS KETONES

ALIPHATIC HYDROCARBONS VAPOR HARMFUL. Use only with adequate ventilation. Wear an appropriate properly fitted vapor/particulate respirator (NIOSH/MSHA approved) during and after application, unless air monitoring demonstrates vapor/mist levels are below applicable levels. Follow respirator manufacturer's directions for respirator use. Avoid contact with eyes and skin. Wash hands after using. Keep container closed when not in use. Do not transfer contents to other containers for storage.

FIRST AID:

IF INHALED: If affected, remove from exposure. Restore breathing. Keep warm and quiet.
IF ON SKIN: Wash affected area thoroughly with soap and water. Remove contaminated clothing. Launder before re-use.

(continued on back)

(continued from column 3)

IF IN EYES: Flush eyes with large amounts of water for 15 minutes. Get medical attention.

IF SWALLOWED: Do not induce vomiting. Get medical attention immediately.

SPILL AND WASTE

Remove all sources of ignition. Ventilate and remove with inert absorbent. Incinerate in approved facility. Do not incinerate closed container. Dispose of in accordance with Federal, State, and Local regulation regarding pollution.

DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE

Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal.

**DO NOT TAKE INTERNALLY
KEEP OUT OF THE REACH OF CHILDREN
FOR INDUSTRIAL USE ONLY**

Refer to material Safety Data Sheet for further information.

Note:

The information, rating and opinions stated above here pertain to the material currently offered and represent the results of tests believed to be reliable. However, due to variations in customer handling and methods of application which are not known or not under our control, The Sherwin-Williams Company cannot make any warranties or guarantees as to the end results.

Sea Ray Boats

Merritt Island Traffic Division
Lead Form

Phone Number: (407) 452-6710

Fax Number: (407) 452-3568

To:

SELINA CANTELON

From:

For:

Instructions:

Pages To Follow:

4

Date/Time Sent:

Date/Time Rec.:

1151588

SOLVENT, SAFETY KLEEN PREMIUM

SAFETY-KLEEN PREMIUM GOLD SOLVENT

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA



SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SAFETY-KLEEN PREMIUM GOLD SOLVENT 1151588

SYNONYMS: (Also known as SAFETY-KLEEN PREMIUM GOLD SOLVENT - CALIF. and SAFETY-KLEEN PREMIUM SOLVENT.)
Parts Washer Solvent; Petroleum Distillates; Petroleum Naphtha; Naphtha, Solvent; Stoddard Solvent; Mineral Spirits.

PRODUCT PART NUMBERS: (Also known as 6639.) 6638.

PRODUCT USE: Cleaning and degreasing metal parts.
If this product is used in combination with other chemicals, refer to the Material Safety Data Sheets for those chemicals.

24-HOUR EMERGENCY TELEPHONES

These numbers are for emergency use only. If you desire non-emergency information about this product, please call a telephone number listed below.

MEDICAL:

1-800-752-7869 (USA)
Extension 2

1-312-942-5969 (CANADA)

TRANSPORTATION (SPILL):

1-800-468-1760 (USA)

1-613-996-6666 (CANADA)

MANUFACTURER/SUPPLIER: Safety-Kleen Corp.
1000 North Randall Road
Elgin, IL, 60123-7857 USA
1-800-669-5740 (local # (414) 321-6050)

TECHNICAL INFORMATION: 1-800-669-5740 Extension 7500

MSDS FORM NUMBER: 82658 (also formerly 82657) **ISSUE:** April 4, 1997

ORIGINAL ISSUE: January 26, 1995

SUPERSEDES: September 18, 1996

PREPARED BY: Product MSDS Coordinator

APPROVED BY: MSDS Task Force

H-1, F-2, R-B, P-B

SAFETY-KLEEN PREMIUM GOLD SOLVENT

MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

WT%	NAME	SYNONYM	CAS NO.	OSHA PEL		ACGIH TLV		LD ^a	LC ^b
				TWA	STEL	TWA	STEL		
100	Distillates (petroleum), hydrotreated light	N.A.V.	04742-47-8	500 ^c ppm	N.A.V.	100 ^c ppm	N.A.V.	>5000 ^d	>2000 mg/m ³ / 4 hours

N.A.V. = Not Available

^cBased on Stoddard Solvent^aOral Rat LC50 (mg/kg)^dSkin-Rat LD50 >2000 mg/kg^bInhalation-Rat LC50

See 29 CFR 1910.1000(d)(2) and ACGIH *Threshold Limit Values for Chemical Substances and Physical Agents: Biological Exposure Indices Included* (Appendix C) for the determination of exposure limits for mixtures. Consult an industrial hygienist or similar professional to confirm that the calculated exposure limits are appropriate.

SECTION 3: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING!

APPEARANCE

Liquid, clear, colorless to pale yellow, mild hydrocarbon odor.

IMMEDIATE HAZARDS

Combustible liquid and vapor.
Harmful if inhaled.
Eye and skin irritant.
May be harmful if swallowed.

DELAYED HAZARDS

Contains material which may cause central nervous system damage.

POTENTIAL HEALTH EFFECTS

INHALATION (BREATHING): High vapor or mist concentrations may be harmful if inhaled. High concentrations of vapor or mist may irritate the respiratory tract (nose, throat, and lungs). High concentrations of vapor or mist may cause nausea and vomiting. High concentrations of vapor or mist may cause headaches, dizziness, incoordination, numbness, irregular heartbeat, and other central nervous system effects. Massive acute overexposure may result in rapid central nervous system depression, sudden collapse, deep coma, and death.

EYES: Direct contact with materials or exposure to vapors may cause irritation.

SKIN: Direct contact with materials or exposure to vapors may cause irritation. A single, prolonged exposure is not likely to cause the material to be absorbed through the skin in harmful amounts.

INGESTION (SWALLOWING): May cause throat irritation, nausea, vomiting, and central nervous system effects as noted under **INHALATION (BREATHING)**. Breathing material into the lungs during ingestion or vomiting may cause lung injury and possible death.

SAFETY-KLEEN PREMIUM GOLD SOLVENT MATERIAL SAFETY DATA SHEET FOR USA AND CANADA

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing lung, cardiac, central nervous system, or skin disorders may have increased susceptibility to the effects of exposure.

CHRONIC: Prolonged or repeated inhalation may cause toxic effects. Prolonged or repeated eye contact may cause inflammation of the membrane lining the eyelids and covering the eyeball. Prolonged or repeated skin contact may cause drying, cracking, redness, itching, swelling, or burns.

CANCER INFORMATION: No known carcinogenicity. For more information, see **SECTION 11: CARCINOGENICITY**.

Also see **SECTION 15: CALIFORNIA**.

SECTION 4: FIRST AID MEASURES

INHALATION: (BREATHING) Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Someone should stay with victim. Get medical attention if breathing difficulty persists.

EYES: For direct contact, immediately flush eyes with plenty of water, holding eyelids apart, for 15 minutes. If irritation or redness from exposure to vapor or mist develops, move away from exposure into fresh air. Get medical attention if irritation or pain persists.

SKIN: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water. Get medical attention if irritation or pain persists.

INGESTION: (SWALLOWING) Immediately get medical attention. Do NOT induce vomiting. If spontaneous vomiting occurs, keep head below hips to avoid breathing material into the lungs.

NOTE TO PHYSICIANS: No specific antidote available. Treat symptomatically and supportively. Administration of gastric lavage, if warranted, should be performed by qualified medical personnel. Call medical emergency telephone number (see **SECTION 1**) for additional information.

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 148°F (64°C) Tag Closed Cup (minimum)

FLAMMABLE LIMITS IN AIR: LOWER: 0.5 VOL% (minimum)
UPPER: 9.3 VOL% (maximum)

AUTOIGNITION TEMPERATURE: 440°F (227°C) (minimum)

HAZARDOUS COMBUSTION PRODUCTS: Burning may produce carbon monoxide.

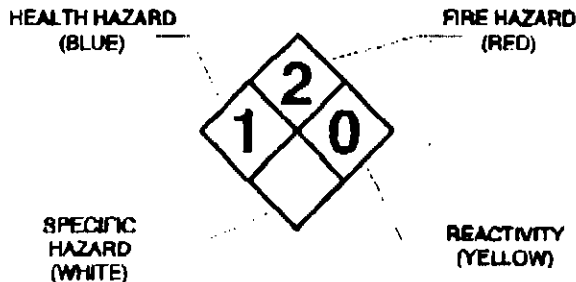
CONDITIONS OF FLAMMABILITY: Heat, sparks, or flame.

**SAFETY-KLEEN PREMIUM GOLD SOLVENT
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

EXTINGUISHING MEDIA: Carbon dioxide, foam, dry chemical, water spray, or water fog.

**NFPA 704
HAZARD
IDENTIFICATION:**

This information is intended solely for the use by individuals trained in this system.



**FIRE FIGHTING
INSTRUCTIONS:**

Keep storage containers cool with water spray. Positive-pressure, self-contained breathing apparatus (SCBA) and structural firefighters' protective clothing may provide limited protection.

**FIRE AND
EXPLOSION HAZARDS:**

Decomposition and combustion products may be toxic. "Empty" containers may retain residue and can be dangerous. Heated containers may rupture. Vapors can travel to ignition source and flash back. Vapor explosion hazard indoors, outdoors, or in sewers. Run-off to sewer may create fire or explosion hazard. Not sensitive to mechanical impact. Material may be sensitive to static discharge, which could result in fire or explosion.

**EMERGENCY RESPONSE
GUIDE NUMBER:**

128
Reference *North American Emergency Response Guidebook*

SECTION 6: ACCIDENTAL RELEASE MEASURES

Remove all ignition sources. Do not touch or walk through spilled material. Stop leak if you can do it without risk. Wear protective equipment specified in **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**. Ventilate area and avoid breathing vapor or mist. A vapor suppressing foam may be used to reduce vapors. Contain away from surface waters and sewers. Contain as a liquid for possible recovery or sorb with compatible sorbent material and shovel with a clean, non-sparking tool into sealable container for disposal.

Additionally, for large spills: isolate hazard area. Keep unnecessary and unprotected personnel from entering. Dike far ahead of liquid spill for collection and later disposal.

**SAFETY-KLEEN PREMIUM GOLD SOLVENT
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

SECTION 7: HANDLING AND STORAGE

- HANDLING:** Keep away from heat, sparks, or flame. Where explosive mixtures may be present, equipment safe for such locations should be used. Use clean, non-sparking tools and explosion-proof equipment. When transferring material, metal containers, including trucks and tank cars, should be grounded and bonded. Avoid contact with eyes, skin, clothing, and shoes. Use in well ventilated area. Do not breathe vapor or mist.
- SHIPPING AND STORING:** Keep container tightly closed when not in use and during transport. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose containers to heat, flame, sparks, static electricity, or other sources of ignition; containers may explode and cause injury or death. Empty product containers may retain product residue and can be dangerous. See **SECTION 14: TRANSPORT INFORMATION** for Packing Group information.
- PERSONAL HYGIENE:** Use good personal hygiene. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco products. Clean contaminated clothing, shoes, and protective equipment before reuse. Discard contaminated clothing, shoes, or protective equipment if they cannot be thoroughly cleaned.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- ENGINEERING CONTROLS:** Provide general ventilation needed to maintain concentration of vapor or mist below applicable exposure limit. Where adequate general ventilation is unavailable, use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limit. Where explosive mixtures may be present, equipment safe for such locations should be used.
- PERSONAL PROTECTIVE EQUIPMENT**
- RESPIRATORY PROTECTION:** Use NIOSH/MSHA-approved respiratory protective equipment when concentration of vapor or mist exceeds applicable exposure limit. A self-contained breathing apparatus (SCBA) and full protective equipment are required for large spills or fire emergencies. Selection and use of respiratory protective equipment should be in accordance in the USA with OSHA General Industry Standard 29 CFR 1910.134; or in Canada with CSA Standard Z94.4-M1982.
- EYE PROTECTION:** Where eye contact is likely, wear chemical goggles; contact lens use is not recommended.
- SKIN PROTECTION:** Where skin contact is likely, wear nitrilo, Viton[®], or equivalent protective gloves; use of butyl rubber, natural rubber, or equivalent gloves is not recommended.

**SAFETY-KLEEN PREMIUM GOLD SOLVENT
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA****OTHER
PROTECTIVE
EQUIPMENT:**

Where spills and splashes are likely, wear appropriate chemical-resistant boots, apron, or other protective clothing. Clean water should be available in work areas for flushing the eyes and skin.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE, APPEARANCE, AND ODOR:	Liquid, clear, colorless to pale yellow, mild hydrocarbon odor.
ODOR THRESHOLD:	30 ppm (based on Stoddard Solvent)
SPECIFIC GRAVITY:	0.78 to 0.82 60°F/60°F (15.6°C/15.6°C) (water = 1)
DENSITY:	6.5 to 6.8 lb/US gal (780 to 820 g/l)
VAPOR DENSITY:	5 (air = 1) approximately
VAPOR PRESSURE:	0.2 mm Hg at 68°F (20°C) (approximately) 0.6 mm Hg at 100°F (38°C) (approximately)
BOILING POINT:	350°F (177°C) (initial)
FREEZING/MELTING POINT:	less than -45°F (-43°C)
pH:	Not applicable.
EVAPORATION RATE:	0.1 (butyl acetate = 1)
SOLUBILITY IN WATER:	Insoluble.
MOLECULAR WEIGHT:	160 (approximately)

SECTION 10: STABILITY AND REACTIVITY

STABILITY:	Stable under normal temperatures and pressures. Avoid heat, sparks, or flame.
INCOMPATIBILITY:	Avoid acids, alkalis, oxidizing agents, reducing agents, or reactive halogens.
REACTIVITY:	Polymerization is not known to occur under normal temperatures and pressures. Not reactive with water.
HAZARDOUS DECOMPOSITION PRODUCTS:	None under normal temperatures and pressures. See also SECTION 5: HAZARDOUS COMBUSTION PRODUCTS.

SECTION 11: TOXICOLOGICAL INFORMATION

SENSITIZATION:	Based on best current information, there is no known human sensitization associated with these materials.
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**SAFETY-KLEEN PREMIUM GOLD SOLVENT
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

CARCINOGENICITY:	<p>IARC classifies chemicals by their carcinogenic risk, including agents that are known, probable, or possible carcinogens. NTP classifies chemicals as either known carcinogens, or for which there is limited evidence of carcinogenicity in humans or sufficient evidence of carcinogenicity in experimental animals. ACGIH recognizes several categories of carcinogens, including confirmed human carcinogens and suspected human carcinogens.</p> <p>Based on best current information, there is no known carcinogenicity associated with these materials.</p> <p>Also see SECTION 15: CALIFORNIA.</p>
REPRODUCTIVE TOXICITY:	<p>Based on best current information, there is no known reproductive toxicity associated with these materials.</p> <p>Also see SECTION 15: CALIFORNIA.</p>
TERATOGENICITY:	<p>Based on best current information, there is no known teratogenicity associated with these materials.</p>
MUTAGENICITY:	<p>Based on best current information, there is no known mutagenicity associated with these materials.</p>
TOXICOLOGICALLY SYNERGISTIC PRODUCT(S):	<p>Based on best current information, there are no known toxicologically synergistic products associated with these materials.</p>

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	<p>A Static Acute Bioassay as per the California Department of Fish and Game WPCL, was done using fathead minnows, and up to 750 ppm of the products in water.</p> <p>The material passed the bioassay with only 1 out of 10 minnows dying. To fail the bioassay, more than 40% of the fish would die in 750 ppm.</p>
OCTANOL/WATER PARTITION COEFFICIENT:	<p>Not available.</p>
VOLATILE ORGANIC COMPOUNDS:	<p>100 WT%; 6.5 to 6.8 lb/US gal; 780 to 820 g/l Photochemically reactive as per 40 CFR Part 51.100(s).</p>

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL:	<p>Dispose in accordance with federal, state, provincial, and local regulations. Regulations may also apply to empty containers. The responsibility for proper waste disposal lies with the owner of the waste. Contact Safety-Kleen regarding recycling or proper disposal.</p>
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**SAFETY-KLEEN PREMIUM GOLD SOLVENT
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

USEPA WASTE CODE(S): Not regulated.
Based on available data, this information applies to the material as supplied to the user. Processing, use, or contamination may make this information inappropriate, inaccurate, or incomplete.

SECTION 14: TRANSPORT INFORMATION

DOT: COMBUSTIBLE LIQUID, N.O.S. (PETROLEUM NAPHTHA),
NA1993, PGIII

TDG: Not regulated.

SECTION 15: REGULATORY INFORMATION

USA REGULATIONS

SARA SECTIONS 311 AND 312: Materials pose the following physical and health hazards as defined in 40 CFR Part 370 and are subject to the requirements of sections 311 and 312 of Title III of the Superfund Amendments and Reauthorization Act of 1986:

Immediate (Acute) Health Hazard
Delayed (Chronic) Health Hazard
Fire Hazard

SARA SECTION 313: These products do not contain toxic chemicals subject to the requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

TSCA: All the components of these products are listed on the TSCA Inventory.

CALIFORNIA: These products may contain a detectable amount of benzene CAS 71-43-2. This material is listed by the State of California as a known carcinogen.

Our testing of these products indicates that this compound is not always detectable. However, when detected, the benzene level is at or below the product specification of 0.4 mg/l.

These products may contain a detectable amount of p-dichlorobenzene CAS 106-46-7. This material is listed by the State of California as a known carcinogen.

Our testing of these products indicates that this compound is not always detectable. However, when detected, the p-dichlorobenzene level is at or below 7.5 mg/l.

These products may contain a detectable amount of toluene CAS 108-88-3. This material is listed by the State of California as known to cause reproductive toxicity.

**SAFETY-KLEEN PREMIUM GOLD SOLVENT
MATERIAL SAFETY DATA SHEET FOR USA AND CANADA**

Our testing of these products indicates that this compound is not always detectable. However, when detected, the toluene level is at or below 500 mg/l.

CANADIAN REGULATIONS

These products have been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS: B3, D2B

**CANADIAN
ENVIRONMENTAL
PROTECTION ACT
(CEPA):**

All the components of these products are listed on the Canadian Domestic Substances List.

SECTION 16: OTHER INFORMATION

REVISION INFORMATION: New format.

LABEL/OTHER INFORMATION: These products are Underwriters Laboratories (UL) listed.

User assumes all risks incident to the use of this product. To the best of our knowledge, the information contained herein is accurate. However, Safety-Kleen assumes no liability whatsoever for the accuracy or completeness of the information contained herein. No representations or warranties, either expressed or implied, or merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information of the product to which information refers. The data contained on this sheet apply to the material as supplied to the user.



Aug. 18. 1998 8:59AM

IMPERIAL ADHESIVES 5133511994 DATA SHEET

F-319 T-875 P-002

OCT 13 '98 07:21

No. 3102 P. 1/8 PAGE 1

IMPERIAL ADHESIVES, INC. 6315 WIEHE RD. CINCINNATI, OHIO 45237

WT

INFORMATION & EMERGENCY NOS: IMPERIAL (513) 351-1300. CHEMTREC (800) 424-9300

PRODUCT IDENTITY 158200 NON-FLAMMABLE WHISPER SPRAY 1209303
ADHESIVE, SPRAY WHISPER

TO: SEA RAY BOATS, INC.
ATTN: ROSALIE Sylvia

INVOICE NO:
ORDER DATE: 8/17/98
LAST REVISION DATE: 6/02/98
REVISION NUMBER: 001

HMIS RATING

ACUTE HEALTH: 2 FLAMMABILITY: 1 REACTIVITY: 0
HAZARD RATING: 0-MINIMAL 1-SLIGHT 2-MODERATE 3-HIGH 4-EXTREME *-CHRONIC

SECTION I - PRODUCT IDENTIFICATION

PRODUCT IDENTITY: 158200 NON-FLAMMABLE WHISPER SPRAY
CHEMICAL NAME/FAMILY: N/A - MIXTURE

SECTION II - HAZARDOUS COMPONENTS

HAZARDOUS COMPONENTS ARE LISTED IN THIS SECTION IF THEY ARE PRESENT AT OR ABOVE 1% IN THE MIXTURE. NTP, IARC AND OSHA CARCINOGENS ARE LISTED AND FOOTNOTED IF THEY ARE PRESENT AT OR ABOVE 0.1% IN THE MIXTURE. ADDITIONAL INFORMATION MAY BE FOUND IN SECTION VI. OTHER COMPONENTS MAY BE LISTED IF DEEMED APPROPRIATE. THE PERCENT BY WEIGHT GIVEN IS AN APPROXIMATE FORMULATION VALUE FOR THE COMPONENT IN THE FINISHED PRODUCT AND NOT A SPECIFICATION. COMPONENTS NOT LISTED ARE DEEMED TO BE NON-HAZARDOUS UNDER THE CRITERIA OF THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD 29 CFR 1910.1200. COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 AND 40 CFR PART 372 ARE IDENTIFIED IN THIS SECTION.

CODES: N/R = NOT REQUIRED, N/A = NOT APPLICABLE, N/D = NOT DETERMINED, < = LESS THAN, > = GREATER THAN, MG/CUM = MILLIGRAMS PER CUBIC METER OF AIR

COMPONENTS	% WT.	A C G I H		O S H A		NOTES
		TLV-TWA	TLV-STEL	PEL-TWA	PEL-STEL	
1-BROMOPROPANE SYNONYM: N-PROPYL BROMIDE CAS NO. 106-94-5	68	N/D	N/D	N/D	N/D	(1, 2)
ALIPHATIC HYDROCARBONS (STODDARD TYPE) COMMON NAME: MINERAL SPIRITS CAS NO. 8052-41-3	1	100 PPM	N/D	500 PPM	N/D	(3)
DIACETONE ALCOHOL CAS NO. 123-42-2	1	50 PPM	N/D	50 PPM	N/D	(4)

NOTES:
THIS PRODUCT CONTAINS NO COMPONENTS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA TITLE III SECTION 313 AND 40 CFR PART 372 IN QUANTITIES GREATER THAN THE "de minimis" LEVEL.

(1) SUPPLIER RECOMMENDS AN EXPOSURE GUIDELINE OF 100 PPM 8-HOUR TWA.

Aug. 18. 1998 9:00AM

IMPERIAL ADHESIVES 5133511994 DATA SHEET

F-319 T-875 P-003

OCT 13 '98 07:21

No. 5762 P. 2/8 PAGE 2

IMPERIAL ADHESIVES, INC.
6315 WIEBE RD. CINCINNATI, OHIO 45237
INFORMATION & EMERGENCY NOS: IMPERIAL (513) 351-1300, CHEMTREC (800) 424-9300

PRODUCT IDENTITY 158200 NON-FLAMMABLE WHISPER SPRAY

SECTION II - HAZARDOUS COMPONENTS (CONTINUED)

NOTES: (CONT'D)

(2) CONTAINS 4.0% 1,3-DIOXOLANE CAS NO. 646-06-0 WHICH HAS NO ESTABLISHED EXPOSURE LIMITS. THE AMOUNT OF 1,3-DIOXOLANE IN THE FINAL PRODUCT IS APPROXIMATELY 3% BY WEIGHT. ALSO CONTAINS 0.5% 1,2-BUTYLENE OXIDE WHICH HAS NO ESTABLISHED EXPOSURE LIMITS. THE AMOUNT OF 1,2-BUTYLENE OXIDE IN THE FINAL PRODUCT IS APPROXIMATELY 0.3% BY WEIGHT. SEE SECTION VI.

(3) EXPOSURE LIMITS AS FOR STODDARD SOLVENT. NIOSH RECOMMENDS LIMITS OF 350 MG/CUM, 8-HOUR TWA, 1800 MG/CUM 15-MIN TWA CHILING.

(4) NIOSH RECOMMENDS A LIMIT OF 50 PPM, 8-HOUR TWA.

SECTION III - PHYSICAL DATA

APPEARANCE: CLEAR LIQUID
APPROXIMATE BOILING POINT/RANGE (DEG.F): 160-315
APPROXIMATE DENSITY: 9.89 LBS/GAL
APPROXIMATE PERCENT VOLATILE BY WEIGHT: 70

SOLUBILITY IN WATER:

- FOR PRODUCT: N/D
- FOR 1-BROMOPROPANE: VERY SLIGHTLY SOLUBLE
- FOR 1,3-DIOXOLANE: COMPLETELY SOLUBLE
- FOR MINERAL SPIRITS: NEGLIGIBLE
- FOR DIACETONE ALCOHOL: COMPLETELY SOLUBLE
- FOR OTHER COMPONENTS: N/D

VAPOR DENSITY (AIR = 1): >1

VAPOR PRESSURE (MM HG @ 68 DEG.F):

- FOR PRODUCT: N/D
- FOR 1-BROMOPROPANE: 135
- FOR 1,3-DIOXOLANE: 70
- FOR MINERAL SPIRITS: 2.0
- FOR DIACETONE ALCOHOL: 0.80
- FOR OTHER COMPONENTS: N/D

EVAPORATION RATE (N-BUTYL ACETATE = 1):

- FOR PRODUCT: N/D
- FOR 1-BROMOPROPANE: 6.0
- FOR 1,3-DIOXOLANE: >1
- FOR MINERAL SPIRITS: 0.12
- FOR DIACETONE ALCOHOL: 0.14
- FOR OTHER COMPONENTS: N/D

FLASH POINT (DEG.F): FOR PRODUCT: NONE PENSKEY-MARTENS CLOSED CUP (SEE SECTION IV); FOR 1-BROMOPROPANE: NONE PENSKEY-MARTENS CLOSED CUP, TAGLIABUE CLOSED CUP, AND CLEVELAND OPEN CUP. HOWEVER HIGH INTENSITY IGNITION SOURCES MAY IGNITE CONCENTRATED VAPORS. SEE SECTION IV.
FOR MINERAL SPIRITS: 105 TAGLIABUE CLOSED CUP
FOR DIACETONE ALCOHOL: 133 TAGLIABUE CLOSED CUP
FOR 1,3-DIOLOXANE: 35 OPEN CUP

APPROXIMATE AUTOIGNITION TEMPERATURE (DEG.F):

- FOR PRODUCT: N/D
- FOR 1-BROMOPROPANE: 914
- FOR MINERAL SPIRITS: 445
- FOR DIACETONE ALCOHOL: 1118
- FOR OTHER COMPONENTS: N/D

FLAMMABLE/EXPLOSIVE LIMITS (% VOLUME IN AIR):

LOWER: 1.0 UPPER: 8.0

Aug. 18. 1998 9:00AM

IMPERIAL ADHESIVES 5133511994

F-319 T-875 P-004

OCT 13 '98 07:22

DATA SHEET

No. 5762 P. 3/8 PAGE

IMPERIAL ADHESIVES, INC.
6315 WIEHE RD. CINCINNATI, OHIO 45237
INFORMATION & EMERGENCY NOS: IMPERIAL (513) 351-1300, CHEMTREC (800) 424-9300

PRODUCT IDENTITY 158200

NON-FLAMMABLE WHISPER SPRAY

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT:

THE SOLVENT IN THIS PRODUCT IS A MIXTURE OF NON-FLAMMABLE BROMINATED SOLVENT AND A SMALL AMOUNT OF FLAMMABLE AND/OR COMBUSTIBLE SOLVENT AND SHOWS NO FLASH POINT IN THE PENSKEY-MARTENS CLOSED CUP TESTER.

CAUTION! THE FLASH POINT CHARACTERISTICS MAY CHANGE UPON PARTIAL EVAPORATION DUE TO THE HIGHER EVAPORATION RATE OF THE BROMINATED SOLVENT(S).

FLAMMABLE LIMITS:

SEE BELOW UNDER "UNUSUAL FIRE AND EXPLOSION HAZARDS."

EXTINGUISHING MEDIA:

WATER FOG

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR SELF-CONTAINED BREATHING APPARATUS WHEN FIGHTING FIRES. WATER MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT. AVOID SPREADING BURNING LIQUIDS WITH WATER USED FOR COOLING PURPOSES.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

AS PRODUCED THIS MATERIAL IS NOT FLAMMABLE. HOWEVER, IF EXPOSED TO AIR FOR EXTENDED PERIODS OF TIME, THE SOLVENT MAY EVAPORATE TO LEAVE MATERIAL WHICH WILL FLASH AND/OR BURN WHEN INTRODUCED TO OPEN FLAME.

THIS PRODUCT SHOULD NOT BE USED WHERE INADEQUATE VENTILATION IS LIKELY OR WHERE VAPOR CONCENTRATIONS MAY BECOME FLAMMABLE.

ALTHOUGH 1-BROMOPROPANE HAS NO FLASH POINT WHEN TESTED BY CONVENTIONAL MEANS, VAPORS CONCENTRATED IN A CONFINED OR POORLY VENTILATED AREA CAN BE IGNITED UPON CONTACT WITH A HIGH ENERGY SPARK, FLAME OR HIGH INTENSITY SOURCE OF HEAT. THIS CAN OCCUR AT CONCENTRATIONS RANGING FROM 3% TO 8% BY VOLUME IN AIR.

THE SOLIDS PORTION OF PRODUCT IS COMBUSTIBLE AND WILL DECOMPOSE DURING COMBUSTION OR UNDER PYROLYSIS CONDITIONS GIVING OFF TOXIC FUMES.

CLOSED CONTAINERS MAY BURST DUE TO PRESSURE BUILD-UP IF EXPOSED TO TEMPERATURES AT OR NEAR THE BOILING POINT OF THE PRODUCT. CLOSED CONTAINERS MAY RUPTURE EXPLOSIVELY IF EXPOSED TO EXTREME HEAT OR FIRE.

NEVER USE WELDING OR CUTTING TORCH ON OR NEAR DRUM (EVEN EMPTY) BECAUSE PRODUCT (EVEN JUST RESIDUE) MAY IGNITE EXPLOSIVELY.

SECTION V - REACTIVITY DATA

STABILITY:

STABLE UNDER NORMAL CONDITIONS

CONDITIONS TO AVOID:

AVOID CONTACT WITH OPEN FLAME, ELECTRIC ARCS, HOT GLOWING SURFACE OR OTHER HIGH TEMPERATURE SOURCES WHICH INDUCE THERMAL DECOMPOSITION.

INCOMPATIBILITY (MATERIALS TO AVOID):

AVOID CONTACT WITH STRONG OXIDIZING AGENTS, STRONG ALKALIES, STRONG ACIDS, AND CHEMICALLY ACTIVE METALS SUCH AS SODIUM, POTASSIUM, BARIUM, POWDERED ALUMINUM, MAGNESIUM, ZINC. AVOID PROLONGED CONTACT WITH, OR STORAGE IN, ALUMINUM OR ITS ALLOYS. AVOID WATER CONTAMINATION.

AUG. 13. 1998 9:00AM

IMPERIAL ADHESIVES 5133511994
DATA SHEET

F-319 T-875 P-005

OCT 13 '98 07:23

No. 5762 P. 4/8
PAGE 4

IMPERIAL ADHESIVES, INC.
6315 WIEBE RD. CINCINNATI, OHIO 45237
INFORMATION & EMERGENCY NOS: IMPERIAL (513) 351-1300, CHEMTREC (800) 424-9300

PRODUCT IDENTITY 158200 NON-FLAMMABLE WHISPER SPRAY

SECTION V - REACTIVITY DATA (CONTINUED)

HAZARDOUS POLYMERIZATION:
WILL NOT OCCUR

HAZARDOUS COMBUSTION AND DECOMPOSITION PRODUCTS:
CARBON MONOXIDE, CARBON DIOXIDE, ACRID (CHOKING) SMOKE AND FUMES,
OXIDES OF NITROGEN, HYDROGEN BROMIDE, BROMINE, OTHER UNIDENTIFIED
ORGANIC COMPOUNDS AND TOXIC SUBSTANCES

SECTION VI - HEALTH HAZARD DATA

PRIMARY ROUTES OF ENTRY:
INHALATION, EYE CONTACT, SKIN CONTACT

EFFECTS OF ACUTE OVEREXPOSURE:
FOR EACH POTENTIAL ROUTE OF EXPOSURE

EYE CONTACT:
VAPORS ARE IRRITATING. DIRECT CONTACT WITH THE LIQUID OR OVEREXPOSURE
TO ITS VAPORS OR MISTS CAN CAUSE MODERATE IRRITATION, PAIN, BURNING,
TEARING, REDNESS. EYE EFFECTS MAY BE ACCENTUATED IF MATERIAL IS NOT
PROMPTLY REMOVED.

SKIN CONTACT:
CONTACT MAY CAUSE IRRITATION. PROLONGED OR REPEATED CONTACT CAN CAUSE
IRRITATION, PAIN, BURNING, REDNESS, DEFATTING (DRYING, CRACKING OR
FLAKING OF SKIN) AND DERMATITIS (INFLAMMATION OF SKIN). SKIN EFFECTS
MAY BE ACCENTUATED BY LIQUID BECOMING TRAPPED AGAINST THE SKIN BY
CONTAMINATED CLOTHING AND SHOES. PERSONS WITH PRE-EXISTING SKIN DISORDERS
MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

SKIN ABSORPTION:
ALTHOUGH ABSORPTION OF LIQUID THROUGH INTACT SKIN IS POSSIBLE, RESULTING
IN SYSTEMIC EFFECTS (INJURY TO OTHER BODY SYSTEMS), A SINGLE PROLONGED
EXPOSURE IS NOT LIKELY TO RESULT IN THE ABSORPTION OF HARMFUL AMOUNTS OF
MATERIAL.

INHALATION:
EXCESSIVE INHALATION OF VAPORS OR MISTS CAN CAUSE NASAL AND RESPIRATORY
IRRITATION, HEADACHE, NAUSEA, SIGNS OF NERVOUS SYSTEM DEPRESSION (SUCH
AS LIGHTHEADEDNESS, DIZZINESS, LOSS OF COORDINATION AND EQUILIBRIUM,
DROWSINESS, WEAKNESS, FATIGUE), AND POSSIBLE UNCONSCIOUSNESS IN CONFINED
OR POORLY VENTILATED AREAS.

EXPOSURE TO HIGH DOSES OF 1-BROMOPROPANE MAY CAUSE CENTRAL NERVOUS SYSTEM
DEPRESSION (ANESTHETIC-LIKE EFFECTS). DOSES WHICH CAUSE ANESTHETIC-LIKE
EFFECTS MAY ALSO CAUSE ADVERSE EFFECTS IN THE LIVER, LUNGS, AND KIDNEYS.

INGESTION:
MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT, HEADACHE, NAUSEA, VOMITING,
DIARRHEA AND SIGNS OF NERVOUS SYSTEM DEPRESSION AS FOR INHALATION.
ASPIRATION OF MATERIAL INTO THE LUNGS DURING SWALLOWING OR VOMITING CAN
CAUSE CHEMICAL PNEUMONITIS (LUNG INFLAMMATION AND DAMAGE) WHICH CAN BE
FATAL. IF ASPIRATED, MAY BE RAPIDLY ABSORBED THROUGH THE LUNGS AND RESULT
IN INJURY TO OTHER BODY SYSTEMS.

ADDITIONAL EFFECTS OF ACUTE OVEREXPOSURE:
INHALATION OF AEROSOL OR SPRAY MIST MAY CAUSE SEVERE IRRITATION OF THE
RESPIRATORY SYSTEM (NOSE, THROAT, LUNGS, ETC.), CHEMICAL PNEUMONITIS
(LUNG INFLAMMATION AND DAMAGE) AND INJURY TO OTHER BODY SYSTEMS FROM
ABSORPTION OF SOLVENT THROUGH LUNGS.

IMPERIAL ADHESIVES, INC.
 6315 WIEBE RD. CINCINNATI, OHIO 45237
 INFORMATION & EMERGENCY NOS: IMPERIAL (513) 351-1300, CHEMTREC (800) 424-9300

PRODUCT IDENTITY 158200 NON-FLAMMABLE WHISPER SPRAY

SECTION VI - HEALTH HAZARD DATA

(CONTINUED)

EMERGENCY AND FIRST AID PROCEDURES:

GET IMMEDIATE MEDICAL ATTENTION IF ANY SYMPTOMS OF OVEREXPOSURE OCCUR.

IF IN EYES:

IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER EYELIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION.

IF ON SKIN:

REMOVE CONTAMINATED CLOTHING. THOROUGHLY WASH EXPOSED SKIN AREA WITH SOAP AND WATER. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE. DISCARD CONTAMINATED SHOES. SEE A PHYSICIAN IF IRRITATION OR INJURY DEVELOPS.

IF BREATHED:

IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

IF SWALLOWED:

IF MATERIAL HAS BEEN CONFINED TO MOUTH, RINSE OUT MOUTH WITH WATER. DO NOT SWALLOW WATER USED FOR RINSING PURPOSES. IF MATERIAL HAS BEEN SWALLOWED, IMMEDIATELY DRINK TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DO NOT INDUCE VOMITING. ASPIRATION OF MATERIAL INTO THE LUNGS DUE TO VOMITING CAN CAUSE CHEMICAL PNEUMONITIS AND/OR SYSTEMIC EFFECTS WHICH CAN BE FATAL. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

NOTE(S) TO PHYSICIAN:

THERE IS NO SPECIFIC ANTEDOTE. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION OF THE PATIENT. INGESTION CREATES A HIGH RISK OF ASPIRATION AND SUBSEQUENT CHEMICAL PNEUMONITIS. CAREFUL LAVAGE MAY BE INDICATED AFTER INGESTION. IF LAVAGE IS PERFORMED, SUGGEST ENDOTRACHEAL AND/OR ESOPHAGEAL CONTROL.

EFFECTS OF CHRONIC OVEREXPOSURE:

LONGTERM OVEREXPOSURE TO 1-BROMOPROPANE MAY CAUSE ADVERSE EFFECTS IN THE LIVER, RESPIRATORY SYSTEM, KIDNEYS, AND CENTRAL NERVOUS SYSTEM.

1,2-BUTYLENE OXIDE HAS BEEN SHOWN TO PRODUCE BENIGN AND MALIGNANT TUMORS IN RATS BUT NOT IN MICE. THESE TUMORS OCCURRED FOLLOWING HIGH EXPOSURE LEVELS WHICH FIRST PRODUCED CHRONIC UPPER RESPIRATORY TRACT IRRITATION. 1,2-BUTYLENE OXIDE IS NOT BELIEVED TO POSE A CARCINOGENIC RISK TO MAN WHEN HANDLED AS RECOMMENDED.

OVEREXPOSURE TO ALIPHATIC HYDROCARBONS CAS NO. 8052-41-3 (MINERAL SPIRITS) HAS BEEN SUGGESTED AS A CAUSE OF CENTRAL NERVOUS SYSTEM EFFECTS IN HUMANS

OVEREXPOSURE TO DIACETONE ALCOHOL HAS APPARENTLY BEEN FOUND TO CAUSE ANEMIA, LIVER ABNORMALITIES, AND KIDNEY DAMAGE IN LABORATORY ANIMALS.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

RESPIRATORY SYMPTOMS ASSOCIATED WITH PRE-EXISTING LUNG DISORDERS (e.g., ASTHMA-LIKE CONDITIONS) MAY BE AGGRAVATED BY EXPOSURE TO THIS MATERIAL. SKIN CONTACT MAY AGGRAVATE PRE-EXISTING SKIN DISORDERS (e.g., DERMATITIS). VAPORS AND LIQUID MAY AGGRAVATE PRE-EXISTING EYE DISORDERS.

THIS PRODUCT CONTAINS ROSIN OR A ROSIN DERIVATIVE. ROSIN AND SOME OF ITS DERIVATIVES HAVE BEEN REPORTED TO CAUSE SKIN SENSITIZATION OR AN ALLERGIC SKIN REACTION SUCH AS A RASH IN SUSCEPTIBLE INDIVIDUALS AFTER REPEATED OR PROLONGED SKIN CONTACT. SKIN CONTACT WITH THIS OR OTHER ROSIN DERIVATIVES AFTER SENSITIZATION MAY CAUSE AN ALLERGIC SKIN REACTION.

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PRODUCT IDENTITY 158200 NON-FLAMMABLE WHISPER SPRAY

SECTION VI - HEALTH HAZARD DATA (CONTINUED)

OTHER HEALTH INFORMATION:

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO ORGANIC SOLVENTS WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. SYMPTOMS INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION. CHRONIC SKIN EXPOSURE TO SOLVENTS MAY CAUSE SIMILAR EFFECTS. INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE CONTENTS OF THIS PRODUCT MAY BE HARMFUL OR FATAL.

IF THIS MATERIAL IS USED IN A MANNER THAT COULD GENERATE PARTICULATES (DUST) AFTER SOLVENT EVAPORATION, IT IS RECOMMENDED THAT THE DUST BE TREATED AS A NUISANCE PARTICULATE ACCORDING TO THE AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH). TLV-TWA 10 MG/CUM OF TOTAL DUST.

ANY PROPOSED USE OF THIS PRODUCT IN ELEVATED-TEMPERATURE PROCESSES OR IN SPRAY APPLICATIONS SHOULD BE THOROUGHLY EVALUATED TO ASSURE THAT SAFE OPERATING CONDITIONS ARE ESTABLISHED AND MAINTAINED.

SECTION VII - SPILL, LEAK AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
 WEAR APPROPRIATE SKIN AND EYE PROTECTION DURING CLEANUP. USE RESPIRATORY PROTECTION IF NEEDED.

SMALL SPILLS:
 ABSORB LIQUID ON PAPER, RAGS, VERMICULITE, FLOOR ABSORBENT OR OTHER ABSORBENT MATERIAL AND TRANSFER TO HOOD. ALLOW VOLATILE PORTION TO EVAPORATE IN HOOD. ALLOW SUFFICIENT TIME FOR VAPORS TO COMPLETELY CLEAR HOOD DUCT WORK. AFTER VOLATILE PORTION HAS EVAPORATED, TRANSFER REMAINING MATERIAL TO APPROPRIATELY MARKED CONTAINER.

LARGE SPILLS:
 ELIMINATE ALL IGNITION SOURCES (FLARES, FLAMES INCLUDING PILOT LIGHTS, ELECTRICAL SPARKS). PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP HAS BEEN COMPLETED. STOP SPILL AT SOURCE, DIKE AREA OF SPILL TO PREVENT SPREADING. PUMP LIQUID TO SALVAGE CONTAINER. REMAINING LIQUID MAY BE TAKEN UP ON SAND, CLAY, EARTH, FLOOR ABSORBENT, OR OTHER ABSORBENT MATERIAL AND SHOVELED INTO CONTAINERS. PREVENT RUN-OFF TO SEWERS, STREAMS OR OTHER BODIES OF WATER. IF RUN-OFF OCCURS, NOTIFY PROPER AUTHORITIES AS REQUIRED, THAT A SPILL HAS OCCURRED.

WASTE DISPOSAL METHOD:
 DISPOSE OF MATERIAL IN ACCORDANCE WITH APPLICABLE LOCAL, COUNTY, STATE AND FEDERAL REGULATIONS. AS PRODUCED, THIS MATERIAL IS A PRODUCT AND NOT A WASTE.

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION:
 IF THE TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, OR IF THE PRODUCT IS USED IN SUCH A MANNER AS TO GENERATE PARTICULATES (FUME, DUST, MIST), A NIOSH APPROVED RESPIRATOR IS ADVISED IN THE ABSENCE OF PROPER ENVIRONMENTAL CONTROL (SEE YOUR SAFETY EQUIPMENT SUPPLIER). ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

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PRODUCT IDENTITY 158200 NON-FLAMMABLE WHISPER SPRAY

SECTION VIII - SPECIAL PROTECTION INFORMATION (CONTINUED)

VENTILATION:

GENERAL MECHANICAL VENTILATION MAY BE SUFFICIENT TO KEEP PRODUCT VAPOR AND/OR MIST CONCENTRATIONS WITHIN SPECIFIED TLV RANGES. IF GENERAL VENTILATION PROVES INADEQUATE TO MAINTAIN SAFE VAPOR AND/OR MIST CONCENTRATIONS, SUPPLEMENTAL LOCAL EXHAUST MAY BE REQUIRED.

PROTECTIVE GLOVES:

THE USE OF IMPERMEABLE GLOVES ARE ADVISED TO PREVENT POTENTIAL SKIN CONTACT, IRRITATION OR INJURY (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

EYE PROTECTION:

CHEMICAL SPLASH GOGGLES IN COMPLIANCE WITH OSHA REGULATIONS ARE RECOMMENDED TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY. HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER).

OTHER PROTECTIVE EQUIPMENT:

FOR OPERATIONS WHERE CONTACT CAN OCCUR, COVERALLS, APRON AND RUBBER FOOT COVERING ARE RECOMMENDED. A SAFETY SHOWER AND EYEWASH FACILITY SHOULD BE AVAILABLE.

SECTION IX - SPECIAL PRECAUTIONS AND OTHER COMMENTS

STORAGE AND HANDLING PRECAUTIONS:

PRACTICE SAFE WORKING PROCEDURES AND GOOD PERSONAL HYGIENE. USE PROTECTIVE EQUIPMENT WHEN NECESSARY. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

HANDLE WITH REASONABLE CARE. STORE IN A COOL, DRY, VENTILATED AREA. KEEP AWAY FROM HEAT AND OPEN FLAME. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE. USE PRODUCT ONLY WITH ADEQUATE VENTILATION. AVOID BREATHING VAPORS AND SPRAY MIST. AVOID EYE AND SKIN CONTACT. IN CONFINED OR POORLY VENTILATED AREAS, VAPORS WHICH READILY ACCUMULATE CAN CAUSE UNCONSCIOUSNESS AND DEATH. CONCENTRATED VAPORS OF THIS PRODUCT ARE HEAVIER THAN AIR AND WILL COLLECT IN LOW AREAS SUCH AS PITS, DEGREASERS, STORAGE TANKS AND OTHER CONFINED AREAS. DO NOT ENTER AREAS WHERE VAPORS OF THIS PRODUCT ARE SUSPECTED UNLESS BREATHING APPARATUS IS USED AND AN OBSERVER IS PRESENT FOR ASSISTANCE. WHEN OPENING CONTAINERS, REMOVE TOP SLOWLY TO RELIEVE ANY PRESSURE BUILD-UP. DO NOT TRANSFER PRODUCT TO UNMARKED CONTAINER. FOR INDUSTRIAL USE ONLY.

ALUMINUM, MAGNESIUM AND THEIR ALLOYS ARE NOT ACCEPTABLE MATERIALS OF CONSTRUCTION FOR PUMPS, MIXERS, FITTINGS OR STORAGE TANKS BECAUSE SOLVENT DECOMPOSITION MAY OCCUR (ESPECIALLY IN PRESSURIZED OR ENCLOSED SYSTEMS) GENERATING HEAT, PRESSURE AND CORROSIVE GASES.

WHEN EXPOSED TO DIRECT HEAT, BROMINATED SOLVENT LIQUID AND VAPORS FORM HYDROGEN BROMIDE AND OTHER TOXIC AND CORROSIVE GASES WHICH WILL CORRODE METALS AND IRRITATE EYES, SKIN, AND RESPIRATORY SYSTEM. LONG TERM CONTACT WITH WATER CAN DEplete STABILIZERS FOLLOWED BY SLOW HYDROLYSIS PRODUCING CORROSIVE ACID.

OTHER PRECAUTIONS:

PRODUCT MAY CORRODE, DEGRADE, OR OTHERWISE REACT WITH SOME METALS AND PLASTICS UPON PROLONGED CONTACT. CONSULT WITH EQUIPMENT SUPPLIER FOR PROPER CONSTRUCTION MATERIALS FOR STORAGE TANKS, MIXERS, FITTINGS, PIPES AND OTHER STORAGE AND HANDLING EQUIPMENT.

Aug. 18. 1998 9:02AM

IMPERIAL ADHESIVES 5133511994

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IMPERIAL ADHESIVES, INC.

6315 WIEBE RD. CINCINNATI, OHIO 45237

INFORMATION & EMERGENCY NOS: IMPERIAL (513) 351-1300, CHEMTREC (800) 424-9300

PRODUCT IDENTITY 158200

NON-FLAMMABLE WHISPER SPRAY

SECTION IX - SPECIAL PRECAUTIONS AND OTHER COMMENTS (CONTINUED)

OTHER PRECAUTIONS:

CONTAINERS OF THIS MATERIAL MAY BE HAZARDOUS WHEN EMPTIED, BECAUSE EMPTIED CONTAINERS RETAIN RESIDUES (VAPORS, LIQUIDS AND/OR SOLIDS). ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

OTHER COMMENTS:

THE RESPONSIBILITY TO PROVIDE A SAFE WORKPLACE REMAINS WITH THE USER. THE USER SHOULD CONSIDER THE HEALTH HAZARDS AND SAFETY INFORMATION CONTAINED HEREIN AS A GUIDE AND SHOULD TAKE THOSE PRECAUTIONS REQUIRED IN AN INDIVIDUAL OPERATION TO INSTRUCT EMPLOYEES AND TO DEVELOP WORK PRACTICE PROCEDURES FOR A SAFE WORK ENVIRONMENT.

THE INFORMATION CONTAINED HEREIN IS, TO THE BEST OF OUR KNOWLEDGE AND BELIEF, ACCURATE. HOWEVER, BECAUSE THE CONDITIONS OF HANDLING AND USE ARE BEYOND OUR CONTROL, WE MAKE NO GUARANTEE OF RESULTS, AND ASSUME NO LIABILITY FOR DAMAGES INCURRED BY THE USE OF THIS MATERIAL. IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

THE OSHA PERMISSIBLE EXPOSURE LIMITS (PEL'S) CONTAINED IN THIS MATERIAL SAFETY DATA SHEET ARE THE CURRENT LIMITS AS LISTED IN THE JUNE 1993 AIR CONTAMINANTS FINAL RULE, SPECIFIED IN TABLES Z-1, Z-2, AND Z-3 (FEDERAL REGISTER, 58:35338-35351, JUNE 30, 1993; CORRECTED IN FEDERAL REGISTER, 58:40191, JULY 27, 1993; AND SUBSEQUENT AMMENDMENTS).

sc. Proper ex Material



Material Safety Data Sheet

MSDS No. 0205V1

WHMIS (Pictograms) 	NFPA (USA) Health Fire Hazard Reactivity Specific Hazard	HMIS (USA) Personal Protection	Protective Clothing 1226638
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Section I: Chemical Product and Company Identification

Product Name/Trade Name Polyester Resin Solution in Styrene (MSDS Code: Type TT)	CB Not applicable.
Customer Product Name Hydropel A 35 15.65640	CAS# Mixture
Supplier AOC, LLC 860 Highway 57 East Collierville, Tennessee U.S.A. 38017 Phone Number: (901) 854-2890	DSL On the DSL list.
Synonyms Not available.	TECA On the TECA list.
Chemical Notes Not applicable.	In case of Emergency CANUTEC (Canada 24 hours Everyday) (913) 999-8998 CHEMTREC (US 24 hours Everyday) (800) 424-8300 Manufacturer (8am to 5pm weekdays) (901) 854-2800
Chemical Family (Aromatic.)	
Chemical Formula Not applicable.	
Manufacturer AOC, LLC 860 Highway 57 East Collierville, Tennessee U.S.A. 38017 Phone Number: (901) 854-2890	Material Uses Industrial applications: Used in the manufacture of fiber reinforced plastic parts.

Section II: Composition and Information on Ingredients

Name	CAS #	% by Weight
Cobalt 2-Ethylhexanoate	138-52-7	0.1-1
Styrene	100-42-5	30-35

Section III: Hazards Identification

Potential Acute Health Effects	Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. May cause skin sensitization. May cause eye irritation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC [Styrene]. An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain since data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure. Classified 2B (Possible for human.) by IARC [Cobalt 2-Ethylhexanoate]. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

Polyester Resin Solution in Styrene (MSDS Code: Type T1)

MSDS No. 9295Y1 Page: 2

Section IV. First Aid Measures

Eye Contact	MAY CAUSE EYE IRRITATION. Check for and remove any contact lenses. DO NOT use an eye ointment. Flush with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Seek medical attention.
Skin Contact	Wash gently and thoroughly the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention.
Hazardous Skin Contact	No additional information.
Inhalation	Allow the victim to rest in a well ventilated area. Seek immediate medical attention.
Hazardous Inhalation	Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention.
Ingestion	DO NOT induce vomiting. If ingested, seek medical advice immediately and show the container or the label. Prevent aspiration.
Hazardous Ingestion	No additional information.

Section V. Fire and Explosion Data

The Product is:	Flammable.
Auto-Ignition Temperature	460°C (914°F) (Styrene).
Flash Points	CLOSED CUP: 31°C (87.8°F)
Flammable Limits	LOWER: 1.1% UPPER: 6.1% (Styrene)
Products of Combustion	Not available
Fire Hazards in Presence of Various Substances	Slightly flammable to flammable in presence of open flames and sparks, of heat.
Explosion Hazards in Presence of Various Substances	Risks of explosion of the product in presence of static discharge: Not available. No specific information is available in our database regarding the product's risks of explosion in the presence of various materials.
Fire Fighting Media and Instructions	Flammable liquid, insoluble in water. SMALL FIRE: Use DRY chemicals, CO ₂ , alcohol foam or water spray. LARGE FIRE: Use water spray or fog. Never direct a water jet in the container in order to prevent any splashing of the product which could cause spreading of the fire. Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.
Special Remarks on Fire Hazards	No additional remark.
Special Remarks on Explosion Hazards	No additional remark.

Section VI. Accidental Release Measures

Small Spill	Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Large Spill	Flammable liquid, insoluble or very slightly soluble in water. Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. DO NOT get water inside container. DO NOT touch spilled material. Prevent entry into sewers, basements or confined areas, if needed. Eliminate all sources of ignition. Call for assistance on disposal.

Polyester Resin Solution in Styrene (MSDS Code: Type T1)

MSDS No. 0205V1 Page: 3

Section VII. Handling and Storage**Precautions**

Keep locked up. Keep away from heat. Keep away from sources of ignition. Ground all equipment containing material. DO NOT ingest. Do not breathe gas, fumes, vapor or spray. Wear suitable protective clothing. If ingested, seek medical advice immediately and show the container or the label.

Storage

Keep away from heat. Keep away from sources of ignition. Keep container tightly closed. Keep in a cool, well-ventilated place. Ground all equipment containing material.

Section VIII. Exposure Controls/Personal Protection**Exposure Limits**

Cobalt 2-Ethylhexanoate

TWA: 0.05 (mg/m³) from OSHATWA: 0.05 (mg/m³) from ACGIH

Styrene

TLV: 20 (ppm) from ACGIH

TWA: 50 (ppm) / 8 hours from OSHA

TLV: 85 (mg/m³) from ACGIH**Engineering Controls**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Splash goggles. Lab coat. Organic vapor respirator. Gloves. Wear appropriate respirator when ventilation is inadequate. Be sure to use a MSHA/NIOSH approved respirator or equivalent. Organic vapor respirator.

Personal Protection in Case of a Large Spill

Splash goggles. Full suit. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product.

Section IX. Physical and Chemical Properties**Physical State and Appearance**

Liquid. (Viscous liquid.)

Odor

Aromatic.

Molecular Weight (g/mol)

1000 to 12000

Taste

Not available.

pH (1% soln/water)

~ 7.0

Color

Clear to Amber.

Boiling Point

>35°C (96.8°F)

Melting Point

Not applicable.

Critical Temperature

Not available.

Specific Gravity

1.1 (Water = 1)

Vapor Pressure

4.5 mm of Hg (@ 20°C) (Styrene)

Vapor Density

3.59 (Air=1) (Styrene)

Volatility

Not available.

Odor Threshold

0.14 ppm (Styrene)

Evaporation rate

Not available.

Viscosity

Varies

Water/Oil Dist. Coeff.

Not available.

Dispersion Properties

Is not dispersed in cold water, hot water.

Solubility

Slightly soluble in cold water, hot water (0.1 to 1.0 %)

Polystyrene Resin Solution in Styrene (MSDS Code: Type TT)

MSDS No. 0205V1 Page 4

Section X. Stability and Reactivity Data

Stability	The product is stable.
Instability Temperature	Not available.
Conditions of Instability	>77 °C
Incompatibility with various substances	Polymerizes in the presence of organic peroxides.
Corrosivity	No specific information is available in our database regarding the corrosivity of this product in presence of various materials.
Special Remarks on Reactivity	Polymerizes in the presence of organic peroxides.
Special Remarks on Corrosivity	No additional remark.

Section XI. Toxicological Information

Routes of Entry	Ingestion.
Toxicity to Animals	Cobalt 2-Ethylhexanoate Styrene Not available. ORAL (LD50): Acute: 2850 mg/kg (Rat).
Special Remarks on Toxicity to Animals	Lung effects have been observed in the mouse following repeated exposure.
Special Remarks on Chronic Effects on Humans	No additional remark.
Special Remarks on Other Toxic Effects on Humans	Styrene: Styrene may produce both acute and chronic effects. Inhalation may cause upper respiratory tract irritation and central nervous system effects including headache, nausea, vomiting and loss of coordination. Direct contact may produce irritation to eyes and skin. Styrene is a possible human carcinogen (IARC Group 2B). Prolonged eye exposure may cause irritation to the lining of the eyes. Prolonged exposure may result in nausea, loss of appetite, general weakness, changes in blood chemistry, and peripheral and central nervous system effects. Prolonged skin exposure may result in dermatitis.

Section XII. Ecological Information

Ecotoxicity	Not available.
BOD5 and COD	Not available.

Section XIII. Disposal Considerations

Waste Disposal	Recycle, if possible. Consult your local or regional authorities.
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Polyester Resin Solution in Styrene (MSDS Code: Type TT)

MSDS No. 0205V1 Page: 5

Section XIV: Transportation Information

Proper Shipping Name (TDG) Resin Solution

TDG Classification TDG CLASS 3: Flammable Liquid.

FIN UN1868

Packing Group III

Special Provisions for Transport 109 The consignor must determine legal limit. (Styrene)

TDG (Pictograms)



Proper Shipping Name (DOT) Resin Solution

DOT Classification DOT CLASS 3: Flammable Liquid.

DOT Identification Number UN1868

DOT Packing Group III

Hazardous Substances Reportable Quantity (kg) Styrene 454.5

Special Provisions for transport No additional remark.

DOT (Pictograms)



Other Regulations

IMDG Classification: Resin solution (styrene), 3.3, UN1868, PG III, Marine Pollutant, Flash point 31 °C, EmS No. 3-05, MFAG Table 310
 IATA Classification: Resin solution, 3, UN1868, PG III, Pkg Inst passenger 309; cargo 310

Section XV: Other Regulations Information and Pictograms

Other Regulations

OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).

On the DBL list.

On the TSCA list.

Florida Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Styrene.

Massachusetts Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Styrene.

Polycaster Resin Solution in Styrene (MSDS Code: Type TT)

MSDS No. 0295V1 Page: 6

Minnesota Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Styrene.

New Jersey Right-To-Know, Substance List (MSL) Hazardous Substances and Extraordinarily Hazardous Substances on the MSL must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Styrene.

Pennsylvania Right-To-Know, Hazardous substance List, Hazardous Substances and Special hazardous Substances on the list must be identified when present in products.

Components present in this product at a level which could require reporting under the statute are:

Styrene.

This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute:

NONE

Other Classifications

WHMIS (Canada)	WHMIS CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). WHMIS CLASS D-2B: Material causing other toxic effects (TOXIC).
HCS (U.S.A.)	HCS CLASS: Flammable liquid having a flash point lower than 37.8°C (100°F). HCS CLASS: Toxic.
DSCL (EEC)	R10- Flammable. R18- In use, may form flammable/explosive vapor-air mixture.

Section VI: Other Information**References**

Transportation of Dangerous Goods Act - "Regulations respecting the handling, offering for transport and transporting of dangerous goods." Extract from the Canada Gazette Part II
- Canada Gazette Part II, Hazardous Products Act "Ingredient Disclosure List".
- Manufacturer's Material Safety Data Sheet
29 CFR 1910.1000, Z - Tables
ACGIH 1995-1996 TLVs for Chemical Substances and Physical Agents
Registry of Toxic Effects of Chemical Substances (RTECS)
California Code of Regulation Proposition 65

Other Special Considerations

No additional remark

Validated by Lynn Campbell on 7/1/97.

Verified by Mark Reebler.

Printed 12/1/98.

Prepared by:

LEHDER Environmental Services Limited
704 Main Street Pl. Edward, Ontario N7V 1X4
(519) 538-4101 ext. 24

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JAN-06-99 WED 11:02 DBF, Inc.

7342851481

P. 02

DBF Inc.

P.O. Box 2385

Riverview, MI 48192-1385

(734) 285-1480

Section 1 - IDENTITY

Product Name: 60138-LV

DOT SHIPPING DESCRIPTION: Resin Solution, 3, UN1866, PGIII

NOTE: May be reclassified an ORM_D, Consumer Commodity in gallon size containers or smaller for DOMESTIC SHIPMENTS ONLY. See 49CFR173.150 CAS NUMBER: Mixture. HMIS/NFPA Rating: Health 2 Fire 3 Reactivity 1

Section 2 - COMPONENTS

INGREDIENT	CAS NUMBER	PERCENT	ACGIH/TLV	OSHA/PEL	RQ
Polyester Resin	Mixture	33-35	-	-	-
Styrene Monomer	100-42-5	15-17	50 ppm	50 ppm	1000 lbs
Inert Fillers	Mixture	49-51			

Section 3 - PHYSICAL DATA

Boiling Point	N/D	Vapor Pressure	N/D
Melting Point	N/A	Vapor Density (air=1)	3.6 (for styrene)
Specific Gravity (H ₂ O=1)	0.92 - 0.98	Percent Volatile	13-15 (by weight)
Solubility in Water	Negligible	Appearance & Odor	Thick paste with pungent odor
Evaporation Rate (Butyl Acetate=1)	Less than 1 (for styrene)		

Section 4 - SUPPLIER NOTIFICATION

This product contains toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and of 40 CFR 372.

CAS# 100-42-5

CHEMICAL NAME: Styrene

PERCENT: 13-15

California Proposition 65: Styrene Oxide is listed as known to the State of California to cause cancer. Styrene Oxide is a metabolite of styrene monomer.

Section 5 - FIRE AND EXPLOSION DATA

FLASH POINT (for styrene): 89-90 Deg. F.

METHOD USED: Closed cup (SETA)

FLAMMABLE LIMITS BY VOLUME (for styrene): LEL 1.1% UEL 6.1%

EXTINGUISHING MEDIA: Water or Foam or Carbon dioxide or Dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MAHS approved self-contained breathing apparatus to avoid inhalation of smoke.

Section 6 - HEALTH HAZARD DATA

EFFECTS OF ACUTE OVEREXPOSURE: Can cause skin and eye irritation. Excessive inhalation of vapors can cause nasal and respiratory irritation; central nervous system effects include dizziness, weakness, fatigue, nausea, headache, possible unconsciousness, and even asphyxiation. Ingestion can cause gastrointestinal irritation, vomiting, diarrhea.

EFFECTS OF CHRONIC OVEREXPOSURE: The International Agency for Research on Cancer (IARC) has classified styrene in Group 2B (possibly carcinogenic to humans). This classification is not based on styrene oxide. A number of lifetime animal studies with styrene including those conducted in the NCI Bioassay Program have not shown styrene to be carcinogenic. There is currently not sufficient evidence to indicate that styrene is carcinogen to humans.

NOTE: Overexposure to styrene has been found to cause the following effects in laboratory animals; liver abnormalities, kidney damage and lung damage.

PRIMARY ROUTES OF ENTRY: Inhalation, skin contact.

FIRST AID: EYES: Flush with large amounts of water, lifting upper and lower lids occasionally. Get medical attention.

SKIN WASH: Wash skin & contaminated clothing thoroughly with soap and water.

INHALATION: Remove to fresh air. If breathing is difficult administer oxygen. If breathing has stopped, give CPR. Keep person warm, quiet and get medical attention.

INGESTION: Do not induce vomiting. Aspiration into lungs can cause chemical pneumonitis. See a physician.

Section 7 - REACTIVITY DATA

HAZARDOUS POLYMERIZATION: Can occur. Avoid exposure to excessive heat peroxides and polymerization catalysts.

STABILITY: Stable

INCOMPATIBILITIES: Avoid contact with: strong alkalis, strong mineral acids and oxidizing agents.

CONDITIONS TO AVOID: Exposure to excessive heat or open flame, storage in open container, long exposure to intense sunlight, contamination with oxidizing agents.

Section 8 - PRECAUTIONS FOR SAFE HANDLING AND USE

STORAGE: Avoid temperature of 100 deg. F.

WASTE DISPOSAL: Dispose in accordance with local, state and federal regulations.

VENTILATION: Provide sufficient ventilation to maintain exposure below TLV for styrene.

PROTECTIVE EQUIPMENT: Normal work clothes covering arms and legs. Gloves and eye protection should also be worn. If concentration levels for styrene are above recommended exposure, organic vapor respirator should be worn. Use appropriate dust mask and eye protection when sanding.

MATERIAL SAFETY DATA SHEET

Prepared: August 1998

BY: Cliff Danville

24 hr EMERGENCY PHONE

(800) 424-9300 (Chemtree)

1235316

GUNK, Lt Wt Bonding Putty

Low Viscosity

JAN-06-99 WED 11:03 DBF, Inc.

7342851481

P. 03

DBF Inc.

P.O. Box 2335

Riverview, MI 48192-1385

(734) 285-1480

Section 1 - IDENTITY

Product Name: 60138-50

DOT SHIPPING DESCRIPTION: Resin Solution, 3, UN1866, PGIII

NOTE: May be reclassified an ORM_D, Consumer Commodity in gallon size containers or smaller for DOMESTIC

SHIPMENTS ONLY. See 49CFR 173.150 CAS NUMBER: Mixture. HMIS/NFPA Rating: Health 2 Fire 3 Reactivity 1

Section 2 - COMPONENTS

INGREDIENT	CAS NUMBER	PERCENT	ACQNTLV	OSHA/PEL	RQ
Polyester Resin	Mixture	30-32	-	-	-
Styrene Monomer	100-42-5	13-15	50 ppm	50 ppm	1000 lbs
Inert Fillers	Mixture	54-56			

Section 3 - PHYSICAL DATA

Boiling Point	N/D	Vapor Pressure	N/D
Melting Point	N/A	Vapor Density (air=1)	3.6 (for styrene)
Specific Gravity(H ₂ O=1)	0.92 - 0.98	Percent Volatile	13-15 (by weight)
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CHEMICAL NAME: Styrene

PERCENT: 13-15

California Proposition 65: Styrene Oxide is listed as known to the State of California to cause cancer. Styrene Oxide is a metabolite of styrene monomer.

Section 5 - FIRE AND EXPLOSION DATA

FLASH POINT (for styrene): 89-90 Deg. F.

METHOD USED: Closed cup (SRTA)

FLAMMABLE LIMITS BY VOLUME (for styrene): LEL 1.1% UEL 6.1%

EXTINGUISHING MEDIA: Water or Foam or Carbon dioxide or Dry chemical

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH/MAHS approved self-contained breathing apparatus to avoid inhalation of smoke.

Section 6 - HEALTH HAZARD DATA

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VENTILATION: Provide sufficient ventilation to maintain exposure below TLV for styrene.

PROTECTIVE EQUIPMENT: Normal work clothes covering arms and legs. Gloves and eye protection should also be worn. If concentration levels for styrene are above recommended exposure, organic vapor respirator should be worn. Use appropriate

MATERIAL SAFETY DATA SHEET

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1235324

GUNK, Lt Wt BONDING PUTTY