

Mitchell, Bruce

From: Zhu, Yi
Sent: Thursday, March 01, 2001 10:38 AM
To: Mitchell, Bruce
Subject: RE: ARMS update for Walt Disney World Resort: 0950111-020-AC: Monorail Trains Spray Booth (NSA-20).

Everything looks good. Thank you.
Yi

-----Original Message-----

From: Mitchell, Bruce
Sent: Tuesday, February 27, 2001 4:49 PM
To: Zhu, Yi
Cc: Fancy, Clair; Sheplak, Scott
Subject: RE: ARMS update for Walt Disney World Resort: 0950111-020-AC: Monorail Trains Spray Booth (NSA-20).

2/27/2001

Dear Yi,

Please check the data again for the changes suggested. Many thanks.

Bruce

-----Original Message-----

From: Zhu, Yi
Sent: Monday, February 26, 2001 7:16 PM
To: Mitchell, Bruce
Cc: Fancy, Clair; Sheplak, Scott
Subject: RE: ARMS update for Walt Disney World Resort: 0950111-020-AC: Monorail Trains Spray Booth (NSA-20).

Bruce, I did not see any SCC, pollutant data. Also no emission point data. Could you please double check these?
Thanks. Yi

-----Original Message-----

From: Mitchell, Bruce
Sent: Wednesday, February 21, 2001 5:23 PM
To: Zhu, Yi
Cc: Fancy, Clair; Sheplak, Scott
Subject: ARMS update for Walt Disney World Resort: 0950111-020-AC: Monorail Trains Spray Booth (NSA-20).

2/21/2001

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Bruce

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

7000 0600 0021 2825 4733

Article Sent To:

Mr. Lee Schmudde 2-16-01

Postage	\$
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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark
Here

Name (Please Print Clearly) (to be completed by mailer)

Mr. Lee Schmudde, V.P. Legal, Walt Disney World Co.
 Street, Apt. No., or PO Box No.
 P.O. Box 10,000
 City, State, ZIP+4
 Lake Buena Vista, Fla 32830-1000

PS Form 3800, July 1999

See Reverse for Instructions

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Lee Schmudde
 V.P., Legal
 Walt Disney World Co.
 P.O. Box 10,000
 Lake Buena Vista, Fla
 32830-1000

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A. Received by (Please Print Clearly) B. Date of Delivery

C. Signature
 X [Signature] FEB 20 2001

Agent
 Addressee

D. Is delivery address different from item 1? Yes
 If YES, enter delivery address below: No

MAIL SERVICES

3. Service Type

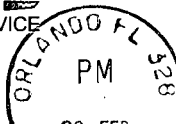
- Certified Mail Express Mail
 Registered Return Receipt for Merchandise
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4. Restricted Delivery? (Extra Fee) Yes

2. Article Number (Copy from service label)

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DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF AIR RESOURCES MANAGEMENT
BUREAU OF AIR REGULATION - TITLE V
2600 BLAIR STONE ROAD
TALLAHASSEE, FLORIDA 32399-2400

MS # 5505

RECEIVED

FEB 22 2001

BUREAU OF AIR REGULATION



Memorandum

Florida Department of Environmental Protection

BAR

TO: Howard Rhodes
THRU: Clair Fancy *CF*
FROM: Bruce Mitchell *BM*
SUBJECT: Conditional Exemption for One Paint Spray Booth
Walt Disney World Resort
North Service Area Monorail Building: Monorail Trains Spray Booth (NSA-20)
DATE: February 14, 2001

The attached conditional exemption is for a proposed paint spray booth (NSA-20), which will be located within the North Service Area Monorail Building and emit volatile organic compounds (VOC) emissions. The NSA-20 operations will be used to spray coating materials onto the monorail trains without removing them from their tracks; also, the operations will be intermittent or batch type (potential/estimated gallons per year usage of paints and solvents are 3650). The increase of potential VOC emissions from the new booth is 7.6 tons per year (TPY).

Upon the next opening of the facility's Title V operation permit, this paint spray booth will be identified/designated as an "unregulated" emissions unit/activity and placed in Appendix U-1, Unregulated Emissions Units/Activities, for future inventory purposes.

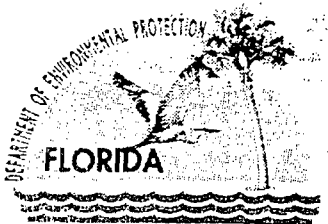
The construction of this emissions unit should not be controversial. Therefore, it is recommended that the attached conditional exemption be signed as drafted.

CHF/bm

Attachment

cc: Scott Sheplak, P.E.

File Copy



Department of Environmental Protection

Jeb Bush
Governor

Marjory Stoneman Douglas Building
3900 Commonwealth Boulevard
Tallahassee, Florida 32399-3000

David B. Struhs
Secretary

February 16, 2001

CERTIFIED MAIL – Return Receipt Requested

Mr. Lee Schmulde
Vice President, Legal
Walt Disney World Co.
P.O. Box 10,000
Lake Buena Vista, Florida 32830-1000

Re: Walt Disney World Resort
~~Conditional Exemption for One Paint Spray Booth~~
North Service Area Monorail Building: Monorail Trains Spray Booth (NSA-20)

Dear Mr. Schmulde:

The Department has evaluated the submittal regarding the above referenced proposed new emission activity, in which one paint spray booth (NSA-20) will be located within the North Service Area Monorail Building and emit volatile organic compounds (VOC) emissions.

The NSA-20 operations will be used to spray coating materials onto the monorail trains without removing them from their tracks; also, the operations will be intermittent or batch type (potential/estimated gallons per year usage of paints and solvents are 3650). The increase of potential VOC emissions from the new booth is 7.6 tons per year (TPY).

The existing facility is a "major source of air pollution" or "Title V Source" for criteria pollutants and hazardous air pollutant emissions pursuant to Rule 62-210.200, Florida Administrative Code (F.A.C.), Definitions, and received its initial Title V operation permit on December 31, 1997, and became effective on January 1, 1998. Since the proposed contemporaneous VOC emissions increase is much less than the significant emissions rate of 40 TPY contained in Table 212.400-2, F.A.C., the proposal is not subject to PSD new source review pursuant to Rule 62-212.400(5), F.A.C.; also, for PSD review consideration pursuant to Rule 62-212.400(6)(b), F.A.C., it is determined that the proposal is not considered as part of a phased project. Finally, there are no specific emission limiting standards pursuant to Rule 62-204.800 and Chapter 62-296, F.A.C.

Based on the above findings, the Department is granting a conditional exemption from the air permitting requirements of the Florida Department of Environmental Protection for the subject paint spray booth. The exemption is based on the premise that any air pollutants emitted from the proposed paint spray booth will not be in significant quantities to contribute to air pollution problems in the state pursuant to Rule 62-4.040(1)(b), F.A.C.

The conditions of this exemption are:

- A. North Service Area Monorail Building: Monorail Trains Spray Booth (NSA-20)
 - 1. The total material usage of the paint spray booth operations is 3650 gallons per calendar year.
 - 2. The owner or operator(s) will account for the materials used using a materials balance scheme, which employs the following:
 - a. a beginning inventory of materials in stock (on or about 1/1/yr);
 - b. adding any materials received during the year;
 - c. subtracting any materials recycled during the year; and,
 - d. subtracting any ending inventory of materials in stock (on or about 12/31/yr), with the net result assumed to have been used and emitted.

"More Protection, Less Process"

Printed on recycled paper.

3. Any records shall be retained for a five year period and made available for Department inspection upon request.
4. The operation of this activity shall not cause or contribute to an objectionable odor.
5. If the conditions on which this exemption are based change, the operator shall notify the Department's Bureau of Air Regulation of the changes and request the exemption be amended.
6. Upon the next opening of the facility's Title V operation permit, this paint spray booth will be identified/designated as an "unregulated" emissions unit/activity and placed in Appendix U-1, Unregulated Emissions Units/Activities, for future inventory purposes.

This conditional exemption will take effect 21 days from the clerking date unless a timely petition for an administrative hearing is filed pursuant to Sections 120.569 and 120.57, Florida Statutes (F.S.). The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the proposed agency action may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida, 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within twenty-one days of receipt of this notice of intent. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within twenty-one days of publication of the public notice or within twenty-one days of receipt of this notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within twenty-one days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner, the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of how and when petitioner received notice of the agency action or proposed action; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, as well as the rules and statutes which entitle the petitioner to relief; and, (f) A demand for relief.

A petition that does not dispute the material facts upon which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department on the request for conditional exemption have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation is not available in this proceeding.

NOTICE OF APPEAL RIGHTS

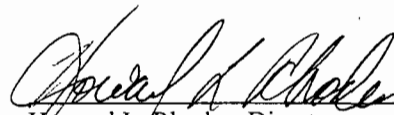
Any party to this conditional exemption has the right to seek judicial review of it under Section 120.68, F.S., by filing a Notice of Appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the Clerk of the Department of Environmental Protection in the Office of General Counsel, Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000, and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within thirty days after this conditional exemption is filed with the Clerk of the Department.

A copy of the conditional exemption and accompanying materials related to the proposed agency action are available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at the

Walt Disney World Resort
Conditional Exemption for One Paint Spray Booth
North Service Area Monorail Building: Monorail Trains Spray Booth (NSA-20)
February 16, 2001
Page 3 of 3

Department of Environmental Protection, Division of Air Resources Management, Suite 23, Magnolia Courtyard, 111 South Magnolia Drive, Tallahassee, Florida 32301, and at the Department's Central Florida District Office, 3319 Maguire Blvd., Suite 232, Orlando, Florida 32803-3767.
Executed in Tallahassee, Florida.

**STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION**



Howard L. Rhodes, Director
Division of Air Resources Management
2600 Blair Stone Road
Tallahassee, Florida 32399-2400
(850)488-0114

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this NOTICE OF CONDITIONAL EXEMPTION and all copies were sent by certified mail before the close of business on 2-16-01 to the person(s) listed:

Mr. Lee Schmudde, Vice President, Legal, Walt Disney World Co.

In addition, the undersigned duly designated deputy agency clerk hereby certifies that copies of this NOTICE OF CONDITIONAL EXEMPTION were sent by U.S. mail on the same date to the person(s) listed, unless otherwise noted:

Mr. Len Kozlov, CD (Interoffice mail)
Mr. Richard Bumar, P.E., Walt Disney World Co.
Mr. Scott Sheplak, BAR (hand delivered)

Bruce

CHF: Ready File
Title V: Ready File

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), F.S., with the designated agency Clerk, receipt of which is hereby acknowledged.

Martha Jane Wise 2/16/01
(Clerk) (Date)



WALT DISNEY World Co.

Bruce
pk handle

RECEIVED

FEB 08 2001

February 5, 2001

BUREAU OF AIR REGULATION

Mr. Clair Fancy, P.E.
Chief, Bureau of Air Regulation
Florida Department of Environmental Protection
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

RE: Installation of one new paint spray booth
Walt Disney World Monorail Building
Project No.: 0950111-020-AC

Dear Mr. Fancy:

This letter proposes a conditional exemption from construction permitting requirements for a new paint spray booth at the Walt Disney World Resort (WDW) complex. The spray booth will be located in the North Service Area Monorail Building. The booth is a custom-designed model, manufactured by JBI, Inc., and will be used to spray coating materials on WDW monorail trains. Please designate this spray booth as NSA-20.

Based on the proposed production schedule and material usage rate, the booth has the potential to emit no more than 7.6 tons of Volatile Organic Compounds (VOC) per year. Please refer to Attachment A for the calculations that verify this amount and for the booth's design drawings. Attachment B shows the location and plot plan of the proposed emissions unit. Attachment C contains the professional engineer's certification and the responsible official's statement.

Since the potential VOC emissions from the operation are below the 40-ton significance threshold established in 62-212 F.A.C., it is requested that the unit be granted a conditional exemption from construction permitting requirements. It is further requested that the spray booth be added as an unregulated emissions unit to the Walt Disney World Resort's Title V permit upon its next opening.

If you require any further information, please call me at 407-939-4701.

Sincerely,

Rich Bumar, P.E.
Environmental Control Representative

Attachments

cc: Brenda Gardner (w/o Attachments)
Leonard Kozlov
Bruce Mitchell
Armando Rodriguez (w/o Attachments)
Lee Schmutde (w/o Attachments)
Scott Sheplak (w/o Attachments)

CONDITIONAL EXEMPTION REQUEST

WALT DISNEY WORLD CO.

February 6, 2001

SUPPLEMENTAL INFORMATION

CONTENTS

ATTACHMENT A	<ul style="list-style-type: none">• SPRAY BOOTH EMISSIONS CALCULATIONS• SPRAY BOOTH DESIGN DRAWINGS• PAINT MATERIAL TECHNICAL MANUALS AND MSD SHEETS
ATTACHMENT B	<ul style="list-style-type: none">• NORTH SERVICE AREA FACILITY PLOT PLAN• AREA MAP
ATTACHMENT C	<ul style="list-style-type: none">• RESPONSIBLE OFFICIAL'S STATEMENT• PROFESSIONAL ENGINEER'S CERTIFICATION

ATTACHMENT A

**SPRAY BOOTH EMISSIONS CALCULATIONS
SPRAY BOOTH DESIGN DRAWINGS
PAINT MATERIAL TECHNICAL MANUALS AND MSD SHEETS**

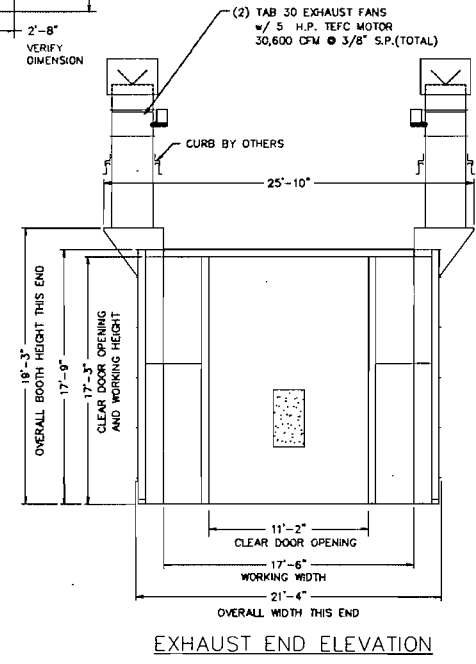
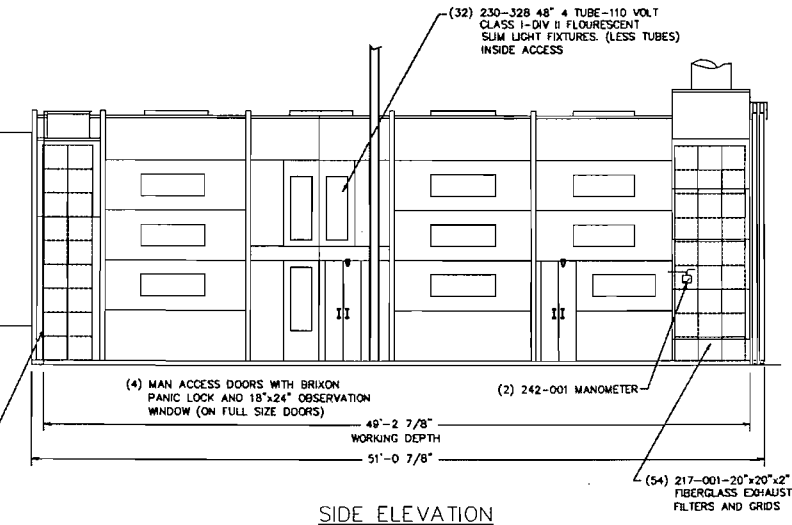
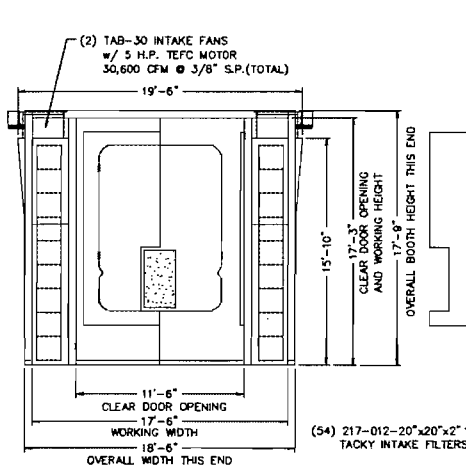
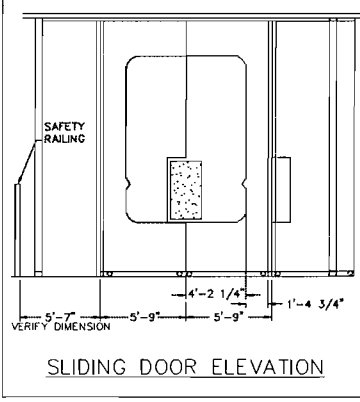
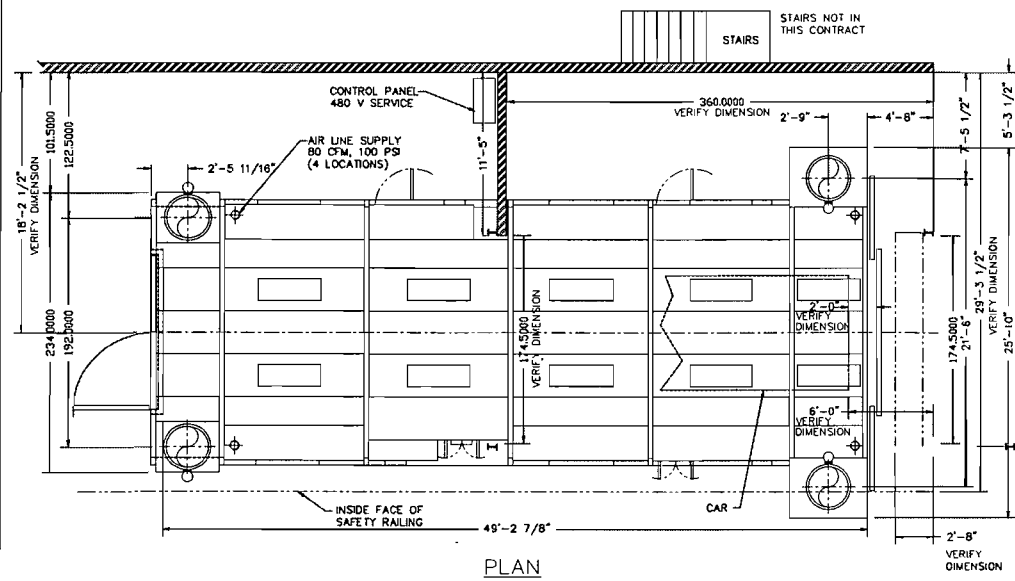
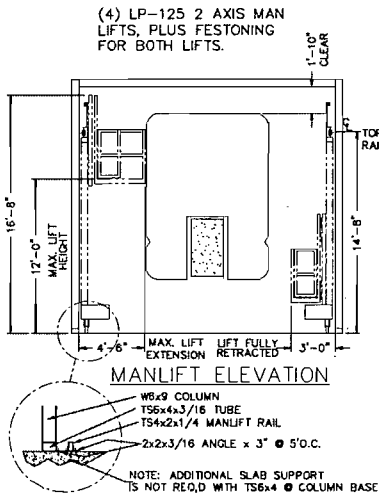
Attachment A

Monorail building Spray Booth- NSA-20

Class	Manufacturer	Material Name	Projected Annual Usage, gal	VOC content, lb/gal	Potential VOC Emissions	
					Annual lb	Annual tons
Acrylic Polyurethane Enamel	DuPont	Imron 6000 (spray ready) ¹	1825	3.5	6,388	3.19
Acrylic Polyurethane Enamel	DuPont	421-20 SelectPrime Primer-Surfacer (spray ready) ²	1825	4.8	8,760	4.38
Totals			3650 gallons		15,148	7.6

¹Reference Imron 6000 technical manual

²Reference nason automotive finishes technical manual



NOTE

BOOTH IS FABRICATED FROM 18 GAUGE UNPAINTED GALVANIZED SHEET STEEL, PRE-PUNCHED COMPANION FLANGED.

BOOTH STRUCTURAL SUPPORT IS FABRICATED FROM W6x9 I BEAM, PRE-DRILLED FACTORY PAINTED.

THIS DRAWING IS THE PROPERTY OF J.A.I. AND IS TO BE KEPT IN CONFIDENCE. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT PERMISSION OF J.A.I.

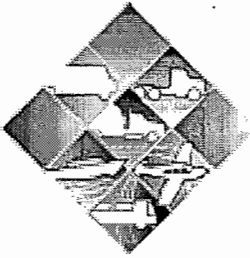
DATE: 11/10/00
 DRAWN BY: P. MYERS
 CHECKED BY: J. J. JONES
 PROJECT NO.: 11-000000-0000
 SHEET NO.: 1 OF 1
 DATE: 2-2-01

WALT DISNEY WORLD
 SPRAY BOOTHS AND SYSTEMS
 P.O. BOX 850
 12231 MONTELEONE ROAD
 HOUSTON, TEXAS 77036
 PHONE: 713-960-9133
 FAX: 713-960-9133
 EMAIL: esaw@disney.com

J.A.I.

T-50-WPDT-S

**ATTACHMENT A
 SPRAY BOOTH DESIGN DRAWINGS
 NORTH SERVICE AREA MONORAIL BUILDING**



DuPont OEM/Fleet Finishes

TECHNICAL MANUAL

IMRON® 6000 LOW VOC

POLYURETHANE ENAMEL BASECOAT

TYPE

A high performance, low VOC (<3.5 lbs/gal), two-component polyurethane basecoat enamel, ready-to-spray, used with 3440S Polyurethane Enamel Clearcoat or EZ-3460S.

DESCRIPTION

A high-hiding, high performance polyurethane basecoat enamel formulated to work with 3440S Clearcoat or EZ-3460S. Most basecoat colors can deliver hiding in one or two coats. Available in lead-free colors.

SUGGESTED USES

A high gloss, extremely durable, chemical and solvent resistant air dry system that is available in solid, metallic and pearl colors. It is an extremely versatile product and is recommended for use on commercial trucks, fleet vehicles, and other applications where superior performance and/or superior appearance is required.

NOT RECOMMENDED FOR

- Immersion service.
- Use over old lacquer finishes.

COMPATIBILITY WITH OTHER COATINGS

Imron® 6000 can be applied over a number of DuPont primers, namely:

- Corlar® Primers
- DuPont Uro® Primers and Sealers
- Prime 'N Seal™

DRY FILM CHARACTERISTICS*

- Chemical Resistance -- EXCELLENT
- Humidity Resistance -- EXCELLENT
- Weatherability -- EXCELLENT
- Acid Resistance -- EXCELLENT
- Alkali Resistance -- EXCELLENT
- Solvent Resistance -- EXCELLENT
- Abrasion Resistance -- EXCELLENT
- Flexibility -- EXCELLENT

* With 3440S Clearcoat or EZ-3460S

MAXIMUM SERVICE TEMPERATURE

- 200°F (92°C) in continuous service.

VOLUME SOLIDS (MIXED 3:1 W/ 193S)

- Basecoats average 52.6%, ± 3%
Varies by color.

WEIGHT SOLIDS (MIXED 3:1 W/ 193S)

- Basecoats average 66%, ± 5%.
Varies by color.

SUGGESTED DRY FILM THICKNESS

- Metallics & Pearls: 1.3 ± 0.3 mils.
- Solid Colors: 1.0 ± 0.3 mils.

ACCELERATOR (TO ACTIVATED PAINT)

- 2 oz/gal of 389S is recommended for faster dry time and longer pot life.

THEORETICAL COVERAGE PER GALLON

- Average 844 ± 40 sq. ft./gal. @1 mil.
Varies by color.

GLOSS

- High sheen.

COLOR

- Available in solid, metallic, and pearl colors.

FLASH POINT (CLOSED CUP)

- Below 80°F.

SHELF LIFE

- 12 months minimum.

APPLICATION SOLVENTS

- Ready-to-spray below 3.5 lbs/gal VOC upon activation. Further reduction will result in greater than 3.5 lbs VOC.

CLEANUP SOLVENTS

- DuPont Thinner 3602S.
- Reducer 8685S.

IMRON® 6000 LOW VOC

POLYURETHANE ENAMEL BASECOAT

ACTIVATION

Add 3 parts Imron® 6000 3.5 VOC Enamel with 1 part 193S Activator and mix thoroughly. Filter material prior to spray application. Up to 2 ounces of Fast Dry Accelerator 389S should be added for improved pot life and dry time.

INDUCTION TIME

- No induction time is required.

POT LIFE

- 2 hours at 70°F.
- 2 - 4 hours at 70°F with 389S Accelerator.
- 45 minutes at 70°F with 8989S Accelerator.

ADDITIONAL COMMENTS

- Heating activated material above 110°F is NOT recommended as paint viscosity will increase rapidly.
- With plural component spray gun, unactivated paint may be heated to 135°F to get 90°F at the gun.
- Sanding is recommended for recoating if the basecoat is force dried or cured >16 hours ambient.
- When striping, for improved tape time use up to 1 oz/gallon of Super Fast Dry Accelerator 8989S.

APPLICATION CONDITIONS

Do not apply if material, substrate or ambient temperature is less than 50°F (10°C) or above 110°F (43°C). The substrate must be at least 5°F above the dew point. Relative humidity should be below 90%.

APPLICATION

- Pressure pot application is recommended for best color match and performance.
- For pressure pot application use 60 - 70 psi air pressure at the gun for all basecoat colors.
- For most colors, apply one coat to achieve hiding. Some lead-free colors may require additional cross coats.
- Do not spray Imron 6000 if the paint temperature is less than 75°F. Use warm water or paint heaters to heat the paint to an optimum temperature of 85 - 95°F. (In case of fish eyes, use Paint Additive 359S to 1 ounce per ready-to-spray gallon of Imron 6000 for solid colors; use 1 oz of VG-F-70050 for metallic colors. Do not use FEE.)
- Purge lines with 3602S Thinner or 8685S Reducer when changing colors or cleaning guns and equipment.

CURE TIME AT RECOMMENDED THICKNESS (AT 77°F & 50% RH)

	without <u>accelerator</u>	with <u>389S</u>	with <u>8989S</u>
■ Dry to Touch	4-6 hours	1-2 hours	30 min - 1 hr.
■ Tack Free	10-12 hours	2-4 hours	1-2 hours
■ Tape Free	12-24 hours	4-6 hours	2-4 hours
■ Dry to Assemble	72 hours	72 hours	72 hours

Dry to clear: Minimum of 30 min. air dry; maximum of 72 hours air dry. Product may be force dried at 180°F in normal use with metal substrate.

APPLICATION EQUIPMENT

- Air-Assisted Airless (recommended)
- Gravity Feed Gun
- Pressure Pot
- Airless
- HVLP

VOC COMPLIANCE

Imron 6000 3.5 VOC Basecoat must be mixed at 3 parts base color to 1 part activator for this product to meet regulatory VOC compliance. Up to 2 oz/gal of 389S or 8989S Accelerator can be added to activated paint without exceeding 3.5 lbs/gal.

FOR VOC REGULATED AREAS

These directions refer to the use of products which may be restricted or require special mixing instructions in your area. Follow recommendations in the DuPont Compliant Products Chart for your area.

SAFETY AND HANDLING

DuPont is committed to helping you develop and maintain a safe working environment. Carefully read the specific warnings and precautions printed on the labels of all DuPont products before handling or using. These products are for industrial use by trained professional painters only.



DuPont OEM/Fleet Finishes



421-20 SelectPrime[™] Primer-Surfacer

421-20 Primer-Surfacer is designed to optimize DOI (Distinctness of Image) and topcoat holdout. 421-20 also provides high build and exceptionally free sanding film without shrinkage or sand scratch swelling.

Mixing

4-1

Mix:

4 parts 421-20 Primer-Surfacer

1 part 483-83 Primer-Surfacer Activator

or

1 part 483-53 Fast Primer-Surfacer Activator

Example:

To 1 gallon 421-20 Primer-Surfacer add 1 quart Activator 483-83.

POT LIFE:

1 Hour at 70°F.

SUBSTRATE PREP:

Properly treated bare steel and aluminum as well as thoroughly sanded painted surfaces.

Etch-Primer: 491-17 or 491-30

When using coarse grit paper, step your way up through P80/P180/P240 grit prior to priming to remove coarse scratches and avoid sandscratch swelling in OEM finishes. Also, sand beyond the area to be primed with P320 grit or finer to ensure good adhesion at the thin edge of the primer.

TOPCOATS:

Nason[®] Ful-Cryl II[™], Ful-Thane[®] Urethane, Ful-Thane[®] Base Coat/Clear Coat.

With proper sealer: Nasco[®], Astron[®] and Ful-Base[®] Enamel. (See Topcoat Data Sheets for Sealer Recommendation).

SURFACE PREPARATION:

Clean all surfaces with 441-05 Silicone Wax Remover. In regulated areas use locally permitted Silicone and Wax Remover. 421-20 can be applied over properly treated bare steel and aluminum as well as thoroughly sanded painted surfaces. Remove sanding dust with permitted Silicone and Wax Remover and allow to dry. Bare metal areas should be treated with the appropriate metal conditioner or preferably, coated with 491-17 or 491-30 Etch Primers. See Product Data Sheets for information on these products.

SPRAY VISCOSITY:

26" #4 Ford Cup

SPRAY PRESSURE:

Conventional: 20-35 PSI

HVLP: 8-10 PSI.

APPLICATION:

Apply 3 medium wet coats. Allow 5-10 min. flash between coats.

DRYING TIME: TO SAND

2.5 hours at 70°F

SANDING THE PRIMER:

400 grit DA or P500 grit hand or P600 grit wet.

CLEANING OF PAINT EQUIPMENT:

Clean with 481-06 Lacquer Thinner. Refer to appropriate Air Quality District requirements for proper use of equipment and solvent.

THEORETICAL COVERAGE:

500 Sq. Ft. Mill Cov.

PERCENT SOLIDS BY WEIGHT:

55.9

PERCENT SOLIDS BY VOLUME:

36.5

FLASH POINT: CLOSED CUP

Below 77°F

IMPORTANT NOTES:

- Sanding is required for adhesion of topcoat to primer and optimal appearance.
- 421-20 can be used under any Nason topcoat system.

VOC READY-TO-SPRAY:

4.8 lbs/gal.

MSDS 12

ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES

January 1, 2001

Vapor Density	Heavier than air
Approx. boiling range (deg C)	No Data Available
Approx. freezing range (deg C)	-81 - -64 DEG (C)
Gallon weight (lbs/gal)	7.65 - 9.43
Specific gravity	0.92 - 1.13
Percent volatile by volume	6.41 - 79.98
Percent volatile by weight	4.99 - 74.70
Percent solids by volume	20.02 - 93.59
Percent solids by weight	25.30 - 95.01

***** SECTION 10 - Stability and Reactivity *****

Stability:

Stable

Incompatibility (materials to avoid):

water, alcohols, amines

Hazardous decomposition products:

CO, CO₂, smoke, and oxides of any heavy metals that are reported in Section 2.

Hazardous polymerization:

Will not occur.

Sensitivity to static discharge:

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to mechanical impact:

Not Applicable

***** SECTION 11 - Additional Information *****

PRODUCT CODE INGREDIENTS (Product Specific)

77S aromatic hydrocarbon-b, butyl acetate, dibutyl tin dilaurate(2%*), isophorone diisocyanate homopolymer(23%*#), toluene(65%*#)

GAL WT: 7.69 WT PCT SOLIDS: 25.30 VOL PCT SOLIDS: 20.02 SOLVENT DENSITY: 7.25 VOC LE: 5.7 VOC AP: 5.7 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

192S aliphatic polyisocyanate resin, aromatic hydrocarbon-b, butyl acetate, ethyl acetate, 1,2,4-trimethyl benzene(1-2%*)

GAL WT: 8.06 WT PCT SOLIDS: 32.69 VOL PCT SOLIDS: 27.08 SOLVENT DENSITY: 7.44 VOC LE: 5.4 VOC AP: 5.4 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

193S aliphatic polyisocyanate resin, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate(4%*#), 1, 6 hexamethylene diisocyanate(0.2%*#)

GAL WT: 9.01 WT PCT SOLIDS: 74.99 VOL PCT SOLIDS: 69.94 SOLVENT DENSITY: 7.49 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

194S aliphatic polyisocyanate resin, butyl acetate, ethyl acetate, oxooctyl acetate, 1, 6 hexamethylene diisocyanate(0.2%*#)

GAL WT: 8.97 WT PCT SOLIDS: 75.00 VOL PCT SOLIDS: 69.66 SOLVENT DENSITY: 7.39 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

195S aliphatic polymeric isocyanate, aromatic hydrocarbon-b, butyl acetate, ethyl acetate, 1, 6 hexamethylene diisocyanate(0.1%*#), 1,2,4-trimethyl benzene(0-2%*)

GAL WT: 8.64 WT PCT SOLIDS: 60.74 VOL PCT SOLIDS: 54.39 SOLVENT DENSITY: 7.44 VOC LE: 3.4 VOC AP: 3.4 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

582S aliphatic polyisocyanate resin, aromatic hydrocarbon-b, butyl acetate, ethyl acetate

GAL WT: 8.19 WT PCT SOLIDS: 38.14 VOL PCT SOLIDS: 32.02 SOLVENT DENSITY: 7.46 VOC LE: 5.1 VOC AP: 5.1 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

782S aliphatic polyisocyanate resin, aromatic hydrocarbon-b, butyl acetate, ethyl acetate, 1, 6 hexamethylene diisocyanate(0.1%*#)

GAL WT: 8.63 WT PCT SOLIDS: 58.21 VOL PCT SOLIDS: 51.49 SOLVENT DENSITY: 7.44 VOC LE: 3.6 VOC AP: 3.6 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

785S aliphatic polymeric isocyanate, methyl ethyl ketone(10%*#), 1, 6 hexamethylene diisocyanate(0.2%*#)

GAL WT: 9.24 WT PCT SOLIDS: 90.00 VOL PCT SOLIDS: 86.13 SOLVENT DENSITY: 6.66 VOC LE: 0.9 VOC AP: 0.9 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

792S aliphatic polyisocyanate resin, aromatic hydrocarbon-b, bis(2,2,6,6, tetramethyl-4 piperidyl) sebacate, butyl acetate, ethyl acetate, substituted benzotriazole, 1,2,4-trimethyl benzene(1-2%*)

GAL WT: 8.07 WT PCT SOLIDS: 33.99 VOL PCT SOLIDS: 28.45 SOLVENT DENSITY: 7.45 VOC LE: 5.3 VOC AP: 5.3 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

793S aliphatic polyisocyanate resin, aromatic hydrocarbon-b, bis(2,2,6,6, tetramethyl-4 piperidyl) sebacate, butyl acetate, diethylene glycol monobutyl ether(6%*#), ethyl acetate, substituted benzotriazole, toluene(4%*#), trixylenyl phosphate, 1, 6 hexamethylene diisocyanate(0.1%*#), 1,2,4-trimethyl benzene(0-2%*)

GAL WT: 9.08 WT PCT SOLIDS: 78.77 VOL PCT SOLIDS: 74.15 SOLVENT DENSITY: 7.48 VOC LE: 1.9 VOC AP: 1.9 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

795S aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate(6%*#), 1, 6 hexamethylene diisocyanate(0.1%*#)

GAL WT: 8.81 WT PCT SOLIDS: 66.78 VOL PCT SOLIDS: 60.96 SOLVENT DENSITY: 7.49 VOC LE: 2.9 VOC AP: 2.9 FLASH POINT: 20 deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

3505s aliphatic polyisocyanate resin, aromatic hydrocarbon-a, aromatic hydrocarbon-b, butyl acetate, diisobutyl ketone, ethylbenzene(1.1-2.8%*#), naphthalene(0-1%*#), xylene(9-10%*#), 1,2,4-trimethyl benzene(0-2%*), 4,6-dimethyl-2-heptanone

GAL WT: 8.10 WT PCT SOLIDS: 41.96 VOL PCT SOLIDS: 34.92 SOLVENT DENSITY: 7.23 VOC LE: 4.7 VOC AP: 4.7 FLASH POINT: 73 deg F to below 100 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

MSDS 12

ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES

January 1, 2001

3705S butyl acetate, trimer of hexamethylene diisocyanate(95%*[Ⓢ]), 1, 6 hexamethylene diisocyanate(0.2%*[Ⓢ])

GAL WT: 9.43 WT PCT SOLIDS: 95.01 VOL PCT SOLIDS: 93.59
SOLVENT DENSITY: 7.35 VOC LE: 0.5 VOC AP: 0.5 FLASH POINT: 73
deg F to below 100 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

4505S aliphatic polyisocyanate resin, butyl acetate, hexyl acetate isomers, isophorone diisocyanate homopolymer(11%*[Ⓢ]), 1,6 hexamethylene diisocyanate (0.1%*[Ⓢ])

GAL WT: 8.93 WT PCT SOLIDS: 73.54 VOL PCT SOLIDS: 69.16
SOLVENT DENSITY: 7.30 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT:
100 deg F - 141 deg F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

4507S aliphatic polyisocyanate resin, butyl acetate, hexyl acetate isomers, isophorone diisocyanate homopolymer(11%*[Ⓢ]), methyl amyl ketone, 1, 6 hexamethylene diisocyanate(0.1%*[Ⓢ])

GAL WT: 8.83 WT PCT SOLIDS: 73.36 VOL PCT SOLIDS: 68.25
SOLVENT DENSITY: 7.08 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT:
100 deg F - 141 deg F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

VG1421 aliphatic polyisocyanate resin, aromatic hydrocarbon-b, butyl acetate, 1, 6 hexamethylene diisocyanate(0.2%*[Ⓢ]), 1,2,4-trimethyl benzene(1-4%*[Ⓢ])

GAL WT: 8.97 WT PCT SOLIDS: 74.33 VOL PCT SOLIDS: 68.34
SOLVENT DENSITY: 7.28 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 73
deg F to below 100 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

2000S-B aliphatic polyisocyanate resin, aromatic hydrocarbon-b, bis (1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, butyl acetate, substituted benzotriazole, toluene(7%*[Ⓢ]), trixylenyl phosphate, 1, 6 hexamethylene diisocyanate(0.1%*[Ⓢ]), 1,2,4 trimethyl benzene(0-2%*[Ⓢ])

GAL WT: 9.18 WT PCT SOLIDS: 84.70 VOL PCT SOLIDS: 80.59
SOLVENT DENSITY: 7.27 VOC LE: 1.4 VOC AP: 1.4 FLASH POINT: 20
deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

7005S aliphatic polyisocyanate resin, aromatic hydrocarbon-b, butyl acetate, diisobutyl ketone, ethyl acetate, 1, 6 hexamethylene diisocyanate(0.1%*[Ⓢ]), 1,2,4-trimethyl benzene(0-2%*[Ⓢ])

GAL WT: 8.70 WT PCT SOLIDS: 65.29 VOL PCT SOLIDS: 58.37
SOLVENT DENSITY: 7.25 VOC LE: 3.0 VOC AP: 3.0 FLASH POINT: 20
deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

7006S aliphatic polymeric isocyanate, hexyl acetate isomers, propylene glycol monomethyl ether acetate, 1, 6 hexamethylene diisocyanate (0.1%*[Ⓢ])

GAL WT: 9.00 WT PCT SOLIDS: 73.13 VOL PCT SOLIDS: 68.19
SOLVENT DENSITY: 7.61 VOC LE: 2.4 VOC AP: 2.4 FLASH POINT:
100 deg F - 141 deg F H: 3 F: 2 R: 1 OSHA STORAGE: II TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8105S aliphatic polyisocyanate resin, aromatic hydrocarbon-a, aromatic hydrocarbon-b, butyl acetate, diisobutyl ketone, ethylbenzene(1.1-2.8%*[Ⓢ]), naphthalene(0-1%*[Ⓢ]), xylene(9-10%*[Ⓢ]), 1,2,4-trimethyl benzene(0-2%*[Ⓢ]), 4,6-dimethyl-2-heptanone

GAL WT: 8.10 WT PCT SOLIDS: 41.96 VOL PCT SOLIDS: 34.92
SOLVENT DENSITY: 7.23 VOC LE: 4.7 VOC AP: 4.7 FLASH POINT: 73
deg F to below 100 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

8195S bis(1,2,2,6,6-pentamethyl-4-piperidinyl) sebacate, butyl acetate, diethylene glycol monobutyl ether(4%*[Ⓢ]), ethyl 3-ethoxy propionate, ethylbenzene(0.6-1.5%*[Ⓢ]), ethylene glycol monobutyl ether acetate (16%*[Ⓢ]), polyester resin, substituted benzotriazole, vm&p naphtha, xylene(4-5%*[Ⓢ])

GAL WT: 7.92 WT PCT SOLIDS: 35.49 VOL PCT SOLIDS: 30.99
SOLVENT DENSITY: 7.39 VOC LE: 5.1 VOC AP: 5.1 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8705S aliphatic polymeric isocyanate, butyl acetate, ethyl acetate, ethylbenzene(3.3-8.3%*[Ⓢ]), toluene(4%*[Ⓢ]), xylene(25-30%*[Ⓢ])

GAL WT: 8.07 WT PCT SOLIDS: 39.61 VOL PCT SOLIDS: 33.13
SOLVENT DENSITY: 7.30 VOC LE: 4.9 VOC AP: 4.9 FLASH POINT: 20
deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

2305S aliphatic polyisocyanate resin, hexyl acetate isomers, propylene glycol monomethyl ether acetate, toluene(7%*[Ⓢ]), 1,6 hexamethylene diisocyanate(0.1%*[Ⓢ])

GAL WT: 8.81 WT PCT SOLIDS: 64.40 VOL PCT SOLIDS: 58.34
SOLVENT DENSITY: 7.55 VOC LE: 3.1 VOC AP: 3.1 FLASH POINT: 73
deg F to below 100 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

V-192S aliphatic polyisocyanate resin, heptane, methyl amyl ketone, methyl ethyl ketone(15%*[Ⓢ]), toluene(26%*[Ⓢ])

GAL WT: 7.65 WT PCT SOLIDS: 38.39 VOL PCT SOLIDS: 30.17
SOLVENT DENSITY: 6.77 VOC LE: 4.7 VOC AP: 4.7 FLASH POINT: 20
deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

Footnotes:

TSCA: In compliance = In compliance with TSCA Inventory requirements for commercial purposes.

ACGIH = American Conference of Governmental Industrial Hygienists

IARC = International Agency for Research on Cancer

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limit

TWA = Time-Weighted Average

* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

Ⓢ = Clean Air Act Hazardous Air Pollutant.

Ⓢ = EPCRA Section 302 - Extremely Hazardous Substance.

NOTICE:

The information on 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.

Product Manager - Refinish Sales

Prepared by: E. L. Taylor

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES

******* SECTION 1 - Product and Company Identification *******

O None

Manufacturer:	E.I. DuPont de Nemours & Co. Dupont Performance Coatings Wilmington, DE, 19898	DIETHYLENE GLYCOL MONOBUTYL ETHER 112-34-5	0.1	D 5.0 ppm A None O None
Telephone:	Product Information: (800) 441-7515 Medical Emergency: (800) 441-3637 Transportation Emergency: (800) 424-9300 (CHEMTREC)	DIISOBUTYL KETONE 108-83-8	1.7	A 25.0 ppm O 50.0 ppm
Product:	ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES	ETHYL ACETATE 141-78-6	76.0	A 400.0 ppm O 400.0 ppm
DOT Shipping Name:	See DOT addendum.	ETHYL 3-ETHOXY PROPIONATE 763-69-9	None	O None A None
Hazardous Materials Information:	See Section 10.	ETHYLBENZENE 100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA

******* SECTION 2 - Composition, Information on Ingredients *******

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS
ALIPHATIC POLYISOCYANATE RESIN	28182-81-2	None	S 1.0 mg/m3 15 min STEL S 0.5 mg/m3 A None O None
ALIPHATIC POLYMERIC ISOCYANATE	3779-63-3	None	S 1.0 mg/m3 15 min STEL S 0.5 mg/m3 A None O None
AROMATIC HYDROCARBON-A	64742-94-5	10.0	D 100.0 ppm A None O None
AROMATIC HYDROCARBON-B	64742-95-6	10.0 @ 25.0 Deg C	D 50.0 ppm A None O None
BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE	41556-26-7	None	A None O None
BIS(2,2,6,6, TETRAMETHYL-4 PIPERIDYL) SEBACATE	52829-07-9	None	S 0.1 mg/m3 A None O None
BUTYL ACETATE	123-86-4	8.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
DIBUTYL TIN DILAURATE	77-58-7	0.2 @ 160.0 Deg C	A None
			ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE 112-07-2 0.3 D 10.0 ppm Skin A None O None
			HEPTANE 142-82-5 40.0 A 500.0 ppm 15 min STEL A 400.0 ppm O 500.0 ppm
			HEXYL ACETATE ISOMERS 88230-35-7 0.7 O None A 50.0 ppm hexyl acetate
			ISOPHORONE DIISOCYANATE HOMOPOLYMER 53880-05-0 None A None O None
			METHYL AMYL KETONE 110-43-0 2.2 A 50.0 ppm O 100.0 ppm
			METHYL ETHYL KETONE 78-93-3 71.0 @ 0.0 A 300.0 ppm 15 min STEL D 300.0 ppm 15 min TWA A 200.0 ppm O 200.0 ppm 8 & 12 hour TWA
			NAPHTHALENE 91-20-3 1.0 @ 52.6 Deg C A 10.0 ppm

MSDS 12

ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES

January 1, 2001

OXO-OCTYL ACETATE	108419-32-5	1.0 @ 25.0 Deg C	O 10.0 ppm S 50.0 ppm A None O None	1, 6 HEXAMETHYLENE DIISOCYANATE 822-06-0	0.0 @ 25.0 Deg C	A 5.0 ppb O None
POLYESTER RESIN	Not Available	None	A None O None	1,2,4-TRIMETHYL BENZENE 95-63-6	7.0 @ 44.4 Deg C	A 25.0 ppm O 25.0 ppm
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	3.7	D 10.0 ppm 12 hr TWA A None O None	4,6-DIMETHYL-2-HEPTANONE 19549-80-5	None	A None O None
SUBSTITUTED BENZOTRIAZOLE	25973-55-1	None	A None O None	<p>***** SECTION 3 - Hazards Information *****</p> <p>Potential Health Effects: Inhalation: May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.</p> <p>Ingestion: May result in gastrointestinal distress.</p> <p>Skin or eye contact: May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.</p> <p>Other Potential Health Effects in addition to those listed above:</p> <p>ALIPHATIC POLYISOCYANATE RESIN Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.</p> <p>ALIPHATIC POLYMERIC ISOCYANATE Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.</p> <p>AROMATIC HYDROCARBON-A Laboratory studies with rats have shown that petroleum distillates</p>		
TOLUENE	108-88-3	36.7	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA A 50.0 ppm Skin O 500.0 ppm Maximum			
TRIMER OF HEXAMETHYLENE DIISOCYANATE	3779-63-3	None	S 1.0 mg/m3 15 min STEL S 0.5 mg/m3 A None O None			
TRIXYLENYL PHOSPHATE	25155-23-1	1.0	O 0.1 mg/m3 TWAE A None			
VM&P NAPHTHA	64742-89-8	12.0	O 400.0 ppm 15 min STEL D 100.0 ppm A 300.0 ppm O 300.0 ppm			
XYLENE	1330-20-7	7.0 @ 25.0 Deg C	A 150.0 ppm 15 min STEL O 100.0 ppm 15 min TWA O 100.0 ppm 15 min STEL D 150.0 ppm 15 min STEL A 100.0 ppm 8 & 12 hour TWA D 100.0 ppm 8 & 12 hour TWA			

MSDS 12

ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES

January 1, 2001

can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

AROMATIC HYDROCARBON-B

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

BIS(1,2,2,6,6-PENTAMETHYL-4-PIPERIDINYL) SEBACATE

Repeated exposure may cause allergic skin rash, itching, swelling.

BIS(2,2,6,6-TETRAMETHYL-4 PIPERIDYL) SEBACATE

Contact may cause skin irritation with discomfort or rash. Causes severe eye irritation.

BUTYL ACETATE

May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

DIBUTYL TIN DILAURATE

Contact may cause skin burns. Causes eye corrosion and permanent injury. Can be absorbed through the skin in harmful amounts.

DIETHYLENE GLYCOL MONOBUTYL ETHER

Contact may cause skin irritation with discomfort or rash. Recurrent overexposure may result in liver and kidney injury. High doses in laboratory animals have shown non specific effects such as irritation, weight loss, moderate blood changes. Tests for mutagenic activity in bacterial or mammalian cell cultures have been inconclusive.

DIISOBUTYL KETONE

Repeated exposure may cause allergic skin rash, itching, swelling. Extremely high oral and inhalation doses in laboratory animals have shown weight changes in various organs such as the liver, kidney, brain, heart and adrenal gland. In addition liver and kidney injury were observed at the extremely high inhalation level. In another inhalation study there was a slight depression in the white blood cell count.

ETHYL ACETATE

Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs.

ETHYL 3-ETHOXY PROPIONATE

Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE

May destroy red blood cells. May cause abnormal kidney function. Can be absorbed through the skin in harmful amounts.

HEPTANE

May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

ISOPHORONE DIISOCYANATE HOMOPOLYMER

May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

METHYL AMYL KETONE

Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

METHYL ETHYL KETONE

High concentrations have caused embryotoxic effects in laboratory animals. Liquid splashes in the eye may result in chemical burns. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy.

NAPHTHALENE

Individuals with preexisting diseases of the liver or kidneys may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

May cause eye irritation with discomfort, tearing, or blurred vision. May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. May cause irritation of the upper respiratory passages.

TOLUENE

Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm.

TRIMER OF HEXAMETHYLENE DIISOCYANATE

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated exposure may cause allergic skin rash, itching, swelling. May cause eye irritation with discomfort, tearing, or blurred

MSDS 12

ISOCYANATE ACTIVATORS, HARDENERS AND ADDITIVES

January 1, 2001

vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

TRIXYLENYL PHOSPHATE

Has produced nervous system effects (such as weakness and tremors) in studies on laboratory animals.

VM&P NAPHTHA

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

XYLENE

Individuals with preexisting disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known.

1, 6 HEXAMETHYLENE DIISOCYANATE

Repeated overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough or permanent lung sensitization. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

***** SECTION 4 - First Aid Measures *****

First Aid Procedures:

Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

Ingestion:

In the unlikely event of ingestion, **DO NOT INDUCE VOMITING.** Call a physician immediately and have names of ingredients available.

Skin or eye:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

***** SECTION 5 - Firefighting Measures *****

Flash Point (Closed Cup) See Section 11 for exact values.

Flammable limits LFL 0.0 % UFL 13.1 %

Extinguishing media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Fire fighting procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

Fire & explosion hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

***** SECTION 6 - Accidental Release Measures *****

Steps to be taken in case material is released or spilled:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. **If the material contains, or is mixed with an isocyanate activator/hardener:** Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. **Typical decontamination solutions for isocyanate containing materials are:** 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance) Pressure can be generated. Do not seal waste containers for 48 hours to allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

***** SECTION 7 - Handling and Storage *****

Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, **VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE**, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

***** SECTION 8 - Exposure Controls or Personal Protection *****

Engineering controls and work practices:

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Respiratory:

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed to vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

Protective clothing:

Neoprene gloves and coveralls are recommended.

Eye protection:

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

***** SECTION 9 - Physical and Chemical Properties *****

Evaporation Rate
Solubility in water

Slower than Ether
NIL

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
IMRON®6000 POLYURETHANE ENAMEL

******* SECTION 1 - Product and Company Identification *******

Manufacturer:	E.I. DuPont de Nemours & Co. Dupont Performance Coatings Wilmington, DE, 19898	ALIPHATIC POLYMERIC ISOCYANATE 3779-63-3	None	O None S 1.0 mg/m3 15 min STEL S 0.5 mg/m3 A None O None
Telephone: Product Information:	(800) 441-7515			
Medical Emergency:	(800) 441-3637			
Transportation Emergency:	(800) 424-9300 (CHEMTREC)	ALUMINUM 7429-90-5	None	A 10.0 mg/m3 O None
Product:	IMRON® 6000 POLYURETHANE ENAMEL			
DOT Shipping Name:	See DOT addendum.	AMORPHOUS SILICA 92797-60-9	None	O 1.0 mg/m3 15 min STEL O 15.0 mg/m3 A 0.2 mg/m3 Respirable
Hazardous Materials Information:	See Section 10.			

******* SECTION 2 - Composition, Information on Ingredients *******

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS	ANTHRAQUINONE PIGMENT			
ACETONE	67-64-1	180.0 @ 68.0 Deg F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA	AROMATIC HYDROCARBON-A	64742-94-5	10.0	D 100.0 ppm A None O None
ACRYLIC POLYMER-A	Not Available	None	A None O None	AROMATIC HYDROCARBON-B	64742-95-6	10.0 @ 25.0 Deg C	D 50.0 ppm A None O None
ACRYLIC POLYMER-B	25067-83-8	None	A None O None	BARIUM SULFATE	7727-43-7	None	D 10.0 mg/m3 A 10.0 mg/m3 Total Dust O 15.0 mg/m3 Total Dust O 5.0 mg/m3 Respirable Dus
ACRYLIC POLYMER-C	26061-99-4	None	A None O None	BETA-(3-(2H-BENZOTRIAZOL-2-YL)-4-HYDROXY-5-TERTBUTYLPHENYL)PROPIONATE	104810-47-1	None	A None O None
ACRYLIC POLYMER-D	69215-54-9	None	A None O None	BUTANEDIOIC ACID, DIMETHYL ESTER	106-65-0	None	D 10.0 mg/m3 A None O None
ACRYLIC POLYMER-E	80010-53-3	None	A None O None	BUTYL ACETATE	123-86-4	8.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm
ALIPHATIC POLYISOCYANATE POLYMER	Not Available	None	A None O None	CARBON BLACK	1333-86-4	None	A 3.5 mg/m3 O 3.5 mg/m3 D 0.5 mg/m3 8 & 12 hour TWA
ALIPHATIC POLYISOCYANATE RESIN	28182-81-2	1.5 @ 25.0 Deg C	S 1.0 mg/m3 15 min STEL S 0.5 mg/m3 A None				

MSDS 22
IMRON® 6000 POLYURETHANE ENAMEL
January 1, 2001

CELLULOSE ACETATE BUTYRATE	9004-36-8	None	A None O None				D 400.0 ppm 8 & 12 hour TWA
DIBUTYL TIN DILAURATE	77-58-7	0.2 @160.0 Deg C	A None O None	LEAD CHROMATE	18454-12-1	None	O 1.0 mg/m3 CEIL Cr A 12.0 µg/m3 Cr A 50.0 µg/m3 Pb O 50.0 µg/m3 Pb
DIKETOPYRROL RED PIGMENT	Not Available	None	A None O None				
DIOXAZINE CARBOZOLE PIGMENT	4378-61-4	None	A 10.0 mg/m3 O 15.0 mg/m3 O 5.0 mg/m3 Respirable	LEAD CHROMATE MOLYBDATE	12656-85-8	None	O 1.0 mg/m3 CEIL Cr A 12.0 µg/m3 Cr A 50.0 µg/m3 Pb O 50.0 µg/m3 Pb
ETHYL ACETATE	141-78-6	76.0	A 400.0 ppm O 400.0 ppm				
ETHYL 3-ETHOXY PROPIONATE	763-69-9	None	O None A None				
ETHYLBENZENE	100-41-4	7.0	A 125.0 ppm 15 min STEL A 100.0 ppm O 100.0 ppm D 25.0 ppm 8 & 12 hour TWA	MEDIUM MINERAL SPIRITS	64742-88-7	7.5 @ 37.8 Deg C	D 100.0 ppm A None O None
ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE	112-07-2	0.3	D 10.0 ppm Skin A None O None	METHYL AMYL KETONE	110-43-0	2.2	A 50.0 ppm O 100.0 ppm
FERRIC HEXACYANOFERRATE	14038-43-8	None	A None O None	METHYL ETHYL KETONE	78-93-3	71.0 @ 0.0	A 300.0 ppm 15 min STEL D 300.0 ppm 15 min TWA A 200.0 ppm O 200.0 ppm D 200.0 ppm 8 & 12 hour TWA
HEPTANE	142-82-5	40.0	A 500.0 ppm 15 min STEL A 400.0 ppm O 500.0 ppm	METHYL ISOBUTYL KETONE	108-10-1	15.0	A 75.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm
HEXYL ACETATE ISOMERS	88230-35-7	0.7	O None A 50.0 ppm hexyl acetate	MICA	12001-26-2	None	A 3.0 mg/m3 Respirable Mass O None
IRON OXIDE	1309-37-1	None	A 5.0 mg/m3 O 10.0 mg/m3	MIXED DIBASIC ESTERS	Not Available	0.2	A None O None
ISOINDOLINONE PIGMENT	36888-99-0	None	A None O None	MONOAZO PIGMENT	12236-62-3	None	A 10.0 mg/m3 O None
ISOPROPYL ALCOHOL	67-63-0	33.0	A 500.0 ppm 15 min STEL A 400.0 ppm O 400.0 ppm	N-BUTYL ALCOHOL	71-36-3	4.2 @ 68.0 Deg F	D 50.0 ppm 15 min TWA

MSDS 22
IMRON®6000 POLYURETHANE ENAMEL
January 1, 2001

				D 25.0 ppm A 50.0 ppm CEIL Skin O 50.0 ppm CEIL Skin	QUINACRIDONE PIGMENT	1047-16-1	None	12 hr TWA A None O None
NICKEL AZO COMPLEX	Not Available	None		A None O None	QUINOPHTHALONE YELLOW PIGMENT	30125-47-4	None	A 10.0 mg/m3 O None
NICKEL OXIDE	1313-99-1	None		A None O None	SILICONE RESIN	9016-00-6	6.0	A None O None
NICKEL, ANTIMONY, TITANIUM YELLOW PIGMENT	8007-18-9	None		A 1.0 mg/m3 Ni O 1.0 mg/m3 Ni A 0.5 mg/m3 Sb O 0.5 mg/m3 Sb	STODDARD SOLVENT	8052-41-3	None	A 100.0 ppm O 100.0 ppm D 50.0 ppm 8 & 12 hour TWA
ORGANOCLAY	68911-87-5	None		A None O None	SUBSTITUTED BENZOTRIAZOLE	25973-55-1	None	A None O None
OXO-OCTYL ACETATE	108419-32-5	1.0 @ 25.0 Deg C		S 50.0 ppm A None O None	TITANIUM DIOXIDE	13463-67-7	None	A 10.0 mg/m3 O 10.0 mg/m3 D 10.0 mg/m3 O 5.0 mg/m3 Respirable
PERYLENE MAROON	5521-31-3	None		A 10.0 mg/m3 O 15.0 mg/m3 O 5.0 mg/m3 Respirable	TOLUENE	108-88-3	36.7	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA A 50.0 ppm Skin O 500.0 ppm Maximum
PHTHALOCYANINE BLUE PIGMENT	147-14-8	None		A None O None	VM&P NAPHTHA	64742-89-8	15.0 @ 37.8 Deg C	O 400.0 ppm
PHTHALOCYANINE GREEN PIGMENT	14302-13-7	None		A None O None				15 min STEL D 100.0 ppm A 300.0 ppm O 300.0 ppm
POLYESTER RESIN-A	65086-73-9	None		A None O None	XYLENE	1330-20-7	7.0 @ 25.0 Deg C	A 150.0 ppm
POLYESTER RESIN-B	71010-58-7	None		A None O None				15 min STEL O 100.0 ppm 15 min STEL O 100.0 ppm 15 min TWA D 150.0 ppm 15 min STEL A 100.0 ppm 8 & 12 hour TWA D 100.0 ppm 8 & 12 hour TWA
POLYOL	68551-65-5	None		A None O None				
PRIMARY AMYL ACETATE	628-63-7	4.0		A 100.0 ppm 15 min STEL A 50.0 ppm O 100.0 ppm				
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	3.7		D 10.0 ppm				

MSDS 22

IMRON®6000 POLYURETHANE ENAMEL

January 1, 2001

1, 6 HEXAMETHYLENE DIISOCYANATE	822-06-0	0.0 @ 25.0 Deg C	A 5.0 ppb O None
1,2,4-TRIMETHYL BENZENE	95-63-6	7.0 @ 44.4 Deg C	A 25.0 ppm O 25.0 ppm
2-PHENOXYETHANOL	122-99-6	None	A None O None
2,4-PENTANEDIONE	123-54-6	7.0	D 10.0 ppm A None O None

* A = ACGIH, O = OSHA, D = DuPont, S = Supplies. Limits are 8 hour TWA unless otherwise specified. Vapor pressure @ 25C unless otherwise noted

***** SECTION 3 - Hazards Information *****

Potential Health Effects:

Inhalation:

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, and unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Other Potential Health Effects in addition to those listed above:

ACETONE

May cause irritation of the mucous membranes. The following medical conditions may be aggravated by exposure: respiratory system, skin. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Overexposure may cause damage to any of the following organs/systems: blood, eyes, kidneys, liver, respiratory system, skin. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

ALIPHATIC POLYISOCYANATE RESIN

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated exposure may cause allergic skin rash, itching, and swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

ALIPHATIC POLYMERIC ISOCYANATE

Overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough, which may be permanent; or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated exposure may cause allergic skin rash, itching, and swelling. May cause eye irritation with discomfort, tearing, or blurred vision. Repeated overexposure to isocyanates may cause lung injury, including a decrease in lung function, which may be permanent. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

AROMATIC HYDROCARBON-A

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

AROMATIC HYDROCARBON-B

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

BUTYL ACETATE

May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

CARBON BLACK

Is an IARC, NTP or OSHA carcinogen.

DIBUTYL TIN DILAURATE

Contact may cause skin burns. Causes eye corrosion and permanent injury. Can be absorbed through the skin in harmful amounts.

ETHYL ACETATE

Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs.

ETHYL 3-ETHOXY PROPIONATE

Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

ETHYLENE GLYCOL MONOBUTYL ETHER ACETATE

May destroy red blood cells. May cause abnormal kidney function. May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. The following medical conditions may be aggravated by exposure: central nervous system, gastrointestinal system, kidneys, liver, Dermatitis. Can be absorbed through the skin in harmful amounts. Overexposure may cause damage to any of the following organs/systems: blood, kidneys, liver. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness. WARNING: This chemical is known to the State of California to cause cancer.

MSDS 22

IMRON® 6000 POLYURETHANE ENAMEL

January 1, 2001

HEPTANE

May cause temporary upper respiratory and/or lung irritation with cough, difficult breathing, or shortness of breath. May cause central nervous system effects such as dizziness, headache, nausea, and loss of consciousness. Contact may cause skin burns. May cause eye irritation with discomfort, tearing, or blurred vision. Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

ISOPROPYL ALCOHOL

Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

LEAD CHROMATE

Is an IARC, NTP or OSHA carcinogen. Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula: $\text{limit}(\text{in } \mu\text{g}/\text{m}^3) = 400/\text{hours worked in the day}$. WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm

LEAD CHROMATE MOLYBDATE

Is an IARC, NTP or OSHA carcinogen. Over exposure to lead may cause adverse effects to the blood forming, nervous, urinary, reproductive systems including embryotoxic effects. Symptoms may include loss of appetite, anemia, disturbance of sleep and fatigue. See OSHA lead standard 29CFR1910.1025. For exposures longer than 8 hours the OSHA exposure limit is reduced by this formula: $\text{limit}(\text{in } \mu\text{g}/\text{m}^3) = 400/\text{hours worked in the day}$. WARNING: This chemical is known to the State of California to cause cancer and birth defects or other reproductive harm

MEDIUM MINERAL SPIRITS

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

METHYL AMYL KETONE

Ingestion studies on laboratory animals showed that very high oral doses caused increased liver and kidney weights.

METHYL ETHYL KETONE

High concentrations have caused embryotoxic effects in laboratory animals. Liquid splashes in the eye may result in chemical burns. Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy.

METHYL ISOBUTYL KETONE

Individuals with preexisting diseases of the central nervous system or lungs may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury.

MICA

Repeated and prolonged overexposure may lead to chronic lung disease.

N-BUTYL ALCOHOL

May cause abnormal blood forming function with anemia. Liquid splashes in the eye may result in chemical burns.

NICKEL AZO COMPLEX

Is an IARC, NTP or OSHA carcinogen. Repeated exposure may cause allergic skin rash, itching, and swelling. WARNING: This chemical is known to the State of California to cause cancer.

PRIMARY AMYL ACETATE

Recurrent overexposure may result in liver and kidney injury.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

May cause eye irritation with discomfort, tearing, or blurred vision. May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. May cause irritation of the upper respiratory passages.

QUINOPHTHALONE YELLOW PIGMENT

Contact may cause skin irritation with discomfort or rash. Ingestion may result in gastric disturbances.

TITANIUM DIOXIDE

In a lifetime inhalation test, lung cancers were found in some rats exposed to 250 mg/m³ respirable titanium dust. Analysis of the titanium dioxide concentrations in the rat's lungs showed that the lung clearance mechanism was overwhelmed and that the results at the massive 250 mg/m³ level are not relevant to the workplace.

TOLUENE

Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heart beats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. WARNING: This chemical is known to the State of California to cause birth defects or other reproductive harm.

VM&P NAPHTHA

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

XYLENE

Individuals with preexisting disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known.

1, 6 HEXAMETHYLENE DIISOCYANATE

Repeated overexposure may cause asthma-like reactions with shortness of breath, wheezing, cough or permanent lung sensitization. Individuals with preexisting lung disease, asthma or breathing difficulties may have increased susceptibility to the toxicity of excessive exposures.

2-PHENOXYETHANOL

May destroy red blood cells. May cause abnormal kidney function.

MSDS 22
IMRON®6000 POLYURETHANE ENAMEL
January 1, 2001

May cause abnormal liver function. Contact may cause skin irritation with discomfort or rash. Causes severe eye irritation.

2,4-PENTANEDIONE

A component of this product is regulated by the U. S. EPA under a significant new use rule. It is a violation of federal law to sell or use this product in consumer applications, including to private individuals, schools, and vocational schools. Can be absorbed through the skin in harmful amounts. Repeated exposures to high concentrations has caused adverse health effects in laboratory animals. These effects involved the central nervous system, immune system, and the red blood cell forming system. No effect was seen at 100 ppm. The odor is disagreeable at a few ppm. Ingestion may result in gastric disturbances.

******* SECTION 4 - First Aid Measures *******

First Aid Procedures:

Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

Ingestion:

In the unlikely event of ingestion, **DO NOT INDUCE VOMITING.** Call a physician immediately and have names of ingredients available.

Skin or eye:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

******* SECTION 5 - Firefighting Measures *******

Flash Point (Closed Cup)

See Section 11 for exact values.

Flammable limits

LFL 0.9 % UFL 13.1 %

Extinguishing media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Fire fighting procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

Fire & explosion hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

******* SECTION 6 - Accidental Release Measures *******

Steps to be taken in case material is released or spilled:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. **If the material contains, or is mixed with an isocyanate activator/hardener:** Wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. **Typical decontamination solutions for isocyanate containing materials are:** 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0-10% Ammonia, 2-5% Detergent and Water (balance) Pressure can be generated. Do not seal waste containers for 48 hours to allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

******* SECTION 7 - Handling and Storage *******

Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, **VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE**, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

******* SECTION 8 - Exposure Controls or Personal Protection *******

Engineering controls and work practices:

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Respiratory:

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

Protective clothing:

Neoprene gloves and coveralls are recommended.

Eye protection:

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

******* SECTION 9 - Physical and Chemical Properties *******

Evaporation Rate	Slower than Ether
Solubility in water	APPRECIABLE
Vapor Density	Heavier than air
Approx. boiling range (deg C)	46 - 0 DEG (C)
Approx. freezing range (deg C)	-81 - -88 DEG (C)
Gallon weight (lbs/gal)	6.89 - 16.71
Specific gravity	0.83 - 2.00
Percent volatile by volume	12.60 - 100.00
Percent volatile by weight	9.96 - 100.00
Percent solids by volume	0.00 - 87.40
Percent solids by weight	0.00 - 90.04

******* SECTION 10 - Stability and Reactivity *******

Stability:

Stable

Incompatibility (materials to avoid):

water, alcohols, amines

Hazardous decomposition products:

CO, CO2, smoke, and oxides of any heavy metals that are reported in Section 2.

Hazardous polymerization:

Will not occur.

MSDS 22

IMRON® 6000 POLYURETHANE ENAMEL

January 1, 2001

Sensitivity to static discharge:

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to mechanical impact:

Not Applicable

***** SECTION 11 - Additional Information *****

PRODUCT CODE INGREDIENTS (Product Specific)

501H acrylic polymer-a, butyl acetate, carbon black(0.6%), ethylbenzene (0.1-0.3%*®), methyl amyl ketone

**GAL WT: 8.22 WT PCT SOLIDS: 52.26 VOL PCT SOLIDS: 45.02
SOLVENT DENSITY: 7.14 VOC LE: 3.9 VOC AP: 3.9 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

502H acrylic polymer-c, butyl acetate, iron oxide, medium mineral spirits, propylene glycol monomethyl ether acetate

**GAL WT: 14.19 WT PCT SOLIDS: 71.79 VOL PCT SOLIDS: 46.25
SOLVENT DENSITY: 7.45 VOC LE: 4.0 VOC AP: 4.0 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

503H acrylic polymer-a, ethylbenzene(0.1-0.2%*®), lead chromate(58.0%*®), methyl amyl ketone, propylene glycol monomethyl ether acetate , titanium dioxide, xylene(1-1%*®)

**GAL WT: 16.71 WT PCT SOLIDS: 77.53 VOL PCT SOLIDS: 50.96
SOLVENT DENSITY: 7.66 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

504H acrylic polymer-a, butyl acetate, ethylbenzene(0.6-1.6%*®), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate, xylene(5-6%*®)

**GAL WT: 8.54 WT PCT SOLIDS: 49.94 VOL PCT SOLIDS: 43.37
SOLVENT DENSITY: 7.55 VOC LE: 4.3 VOC AP: 4.3 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES**

505H acrylic polymer-a, butyl acetate, carbon black(4.1%), ethylbenzene (0.7-1.7%*®), methyl amyl ketone, toluene(2%*®), xylene(5-6%*®)

**GAL WT: 8.24 WT PCT SOLIDS: 48.82 VOL PCT SOLIDS: 41.54
SOLVENT DENSITY: 7.22 VOC LE: 4.2 VOC AP: 4.2 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES**

506H acrylic polymer-a, butyl acetate, ethylbenzene(0.5-1.3%*®), methyl amyl ketone, phthalocyanine green pigment, toluene(1%*®), xylene(4-5%*®)

**GAL WT: 8.22 WT PCT SOLIDS: 44.39 VOL PCT SOLIDS: 33.81
SOLVENT DENSITY: 6.91 VOC LE: 4.6 VOC AP: 4.6 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

507H acrylic polymer-a, butyl acetate, ethylbenzene(0.4-0.9%*®), methyl amyl ketone, phthalocyanine blue pigment, propylene glycol monomethyl ether acetate , toluene(1%*®), xylene(3-3%*®)

**GAL WT: 8.58 WT PCT SOLIDS: 48.62 VOL PCT SOLIDS: 41.50
SOLVENT DENSITY: 7.54 VOC LE: 4.4 VOC AP: 4.4 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

509H acrylic polymer-a, butyl acetate, diketopyrrol red pigment, ethylbenzene(0.1-0.2%*®), methyl amyl ketone, propylene glycol monomethyl ether acetate

**GAL WT: 9.12 WT PCT SOLIDS: 53.24 VOL PCT SOLIDS: 44.67
SOLVENT DENSITY: 7.70 VOC LE: 4.3 VOC AP: 4.3 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

510H acrylic polymer-a, butyl acetate, ethylbenzene(0.2-0.4%*®), lead chromate(57.6%*®), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene(1-1%*®)

**GAL WT: 15.82 WT PCT SOLIDS: 76.30 VOL PCT SOLIDS: 50.99
SOLVENT DENSITY: 7.65 VOC LE: 3.7 VOC AP: 3.7 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

511H acrylic polymer-a, butyl acetate, ethylbenzene(0.1-0.3%*®), lead chromate(56.5%*®), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene(1-1%*®)

**GAL WT: 15.50 WT PCT SOLIDS: 74.47 VOL PCT SOLIDS: 47.97
SOLVENT DENSITY: 7.61 VOC LE: 4.0 VOC AP: 4.0 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

512H acrylic polymer-a, butyl acetate, ethylbenzene(0.2-0.5%*®), lead chromate molybdate(56.4%*®), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene(1-2%*®)

**GAL WT: 15.49 WT PCT SOLIDS: 75.76 VOL PCT SOLIDS: 50.71
SOLVENT DENSITY: 7.62 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

513H acrylic polymer-a, butyl acetate, ethylbenzene(0.2-0.6%*®), methyl amyl ketone, propylene glycol monomethyl ether acetate, quinacridone pigment, toluene(2%*®), xylene(2-2%*®)

**GAL WT: 8.70 WT PCT SOLIDS: 42.59 VOL PCT SOLIDS: 35.30
SOLVENT DENSITY: 7.73 VOC LE: 5.0 VOC AP: 5.0 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

514H acrylic polymer-a, butyl acetate, ethylbenzene(0.1-0.2%*®), methyl amyl ketone, primary amyl acetate, quinacridone pigment

**GAL WT: 8.45 WT PCT SOLIDS: 47.13 VOL PCT SOLIDS: 38.10
SOLVENT DENSITY: 7.22 VOC LE: 4.5 VOC AP: 4.5 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

515H acrylic polymer-a, butyl acetate, ethylbenzene(0.1-0.3%*®), iron oxide, methyl amyl ketone, propylene glycol monomethyl ether acetate, toluene(2%*®), xylene(1-1%*®)

**GAL WT: 12.45 WT PCT SOLIDS: 66.39 VOL PCT SOLIDS: 45.16
SOLVENT DENSITY: 7.64 VOC LE: 4.2 VOC AP: 4.2 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

516H acrylic polymer-a, butyl acetate, ethylbenzene(0.1-0.3%*®), methyl amyl ketone, propylene glycol monomethyl ether acetate, titanium dioxide

**GAL WT: 14.85 WT PCT SOLIDS: 77.55 VOL PCT SOLIDS: 55.56
SOLVENT DENSITY: 7.51 VOC LE: 3.3 VOC AP: 3.3 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO**

MSDS 22

IMRON®6000 POLYURETHANE ENAMEL

January 1, 2001

517H acrylic polymer-a, butyl acetate, ethylbenzene(0.5-1.3%*), ferric hexacyanoferrate(19%*), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene(4-5%*)

GAL WT: 8.93 WT PCT SOLIDS: 51.78 VOL PCT SOLIDS: 42.74
SOLVENT DENSITY: 7.52 VOC LE: 4.3 VOC AP: 4.3 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

518H acrylic polymer-a, butyl acetate, dioxazine carbozole pigment, ethylbenzene(1.0-2.4%*), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene(8-9%*)

GAL WT: 8.40 WT PCT SOLIDS: 52.91 VOL PCT SOLIDS: 46.95
SOLVENT DENSITY: 7.46 VOC LE: 4.0 VOC AP: 4.0 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

519H acrylic polymer-a, indanthrone, butyl acetate, ethylbenzene (1.1-2.6%*), methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene(8-10%*)

GAL WT: 8.27 WT PCT SOLIDS: 48.58 VOL PCT SOLIDS: 42.10
SOLVENT DENSITY: 7.34 VOC LE: 4.3 VOC AP: 4.3 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

520H acrylic polymer-b, aluminum(10%*), aromatic hydrocarbon-b, ethylbenzene(0.5-1.3%*), medium mineral spirits, n-butyl alcohol(3%*), propylene glycol monomethyl ether acetate, xylene(4-5%*)

GAL WT: 8.63 WT PCT SOLIDS: 47.74 VOL PCT SOLIDS: 39.25
SOLVENT DENSITY: 7.43 VOC LE: 4.5 VOC AP: 4.5 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

522H acrylic polymer-b, aluminum(25%*), aromatic hydrocarbon-b, butyl acetate, ethylbenzene(0.6-1.4%*), medium mineral spirits, n-butyl alcohol(2%*), propylene glycol monomethyl ether acetate, stoddard solvent, xylene(5-5%*)

GAL WT: 9.30 WT PCT SOLIDS: 51.04 VOL PCT SOLIDS: 38.84
SOLVENT DENSITY: 7.45 VOC LE: 4.6 VOC AP: 4.6 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

524H acrylic polymer-b, butyl acetate, ethylbenzene(0.0-0.1%*), isopropyl alcohol, medium mineral spirits, n-butyl alcohol(8%*), nickel azo complex(8.2%*), propylene glycol monomethyl ether acetate, toluene (3-3%*), vm&p naphtha

GAL WT: 8.25 WT PCT SOLIDS: 51.68 VOL PCT SOLIDS: 44.41
SOLVENT DENSITY: 7.18 VOC LE: 4.0 VOC AP: 4.0 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

525H acrylic polymer-a, butyl acetate, ethylbenzene(0.4-1.1%*), iron oxide, methyl amyl ketone, primary amyl acetate, xylene(3-4%*)

GAL WT: 9.54 WT PCT SOLIDS: 52.70 VOL PCT SOLIDS: 37.39
SOLVENT DENSITY: 7.21 VOC LE: 4.5 VOC AP: 4.5 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

526H acrylic polymer-b, butyl acetate, dioxazine carbozole pigment, medium mineral spirits, n-butyl alcohol(4%*), propylene glycol monomethyl ether acetate

GAL WT: 8.31 WT PCT SOLIDS: 50.05 VOL PCT SOLIDS: 44.08
SOLVENT DENSITY: 7.42 VOC LE: 4.2 VOC AP: 4.2 FLASH POINT: 20
deg F to below 73 deg F H: 1 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

527H acrylic polymer-a, barium sulfate, butyl acetate, ethylbenzene (0.1-0.3%*), methyl amyl ketone, perylene maroon, propylene glycol monomethyl ether acetate, toluene(3%*)

GAL WT: 8.81 WT PCT SOLIDS: 44.06 VOL PCT SOLIDS: 36.05
SOLVENT DENSITY: 7.72 VOC LE: 4.9 VOC AP: 4.9 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

528H acrylic polymer-a, butyl acetate, methyl amyl ketone, monoazo pigment, propylene glycol monomethyl ether acetate

GAL WT: 9.07 WT PCT SOLIDS: 48.94 VOL PCT SOLIDS: 40.66
SOLVENT DENSITY: 7.80 VOC LE: 4.6 VOC AP: 4.6 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

529H acrylic polymer-a, butyl acetate, ethylbenzene(0.2-0.5%*), isoindolinone pigment, methyl amyl ketone, propylene glycol monomethyl ether acetate, xylene(2-2%*)

GAL WT: 9.43 WT PCT SOLIDS: 51.47 VOL PCT SOLIDS: 40.49
SOLVENT DENSITY: 7.69 VOC LE: 4.6 VOC AP: 4.6 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

538H acrylic polymer-a, butyl acetate, ethylbenzene(0.1-0.3%*), methyl amyl ketone, nickel oxide(2.9%*), nickel, antimony, titanium(54.2%*), propylene glycol monomethyl ether acetate, toluene(1%*), xylene(1-1%*)

GAL WT: 14.80 WT PCT SOLIDS: 72.17 VOL PCT SOLIDS: 46.29
SOLVENT DENSITY: 7.67 VOC LE: 4.1 VOC AP: 4.1 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

542H acrylic polymer-a, ethylbenzene(0.3-0.7%*), methyl amyl ketone, primary amyl acetate, quinacridone pigment, xylene(2-2%*)

GAL WT: 8.29 WT PCT SOLIDS: 48.81 VOL PCT SOLIDS: 40.90
SOLVENT DENSITY: 7.19 VOC LE: 4.2 VOC AP: 4.2 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

545H acrylic polymer-a, butyl acetate, ethylbenzene(0.7-1.7%*), iron oxide, methyl amyl ketone, primary amyl acetate, xylene(5-6%*)

GAL WT: 9.27 WT PCT SOLIDS: 54.32 VOL PCT SOLIDS: 41.20
SOLVENT DENSITY: 7.20 VOC LE: 4.2 VOC AP: 4.2 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

549H acrylic polymer-a, aromatic hydrocarbon-a, butyl acetate, ethylbenzene(0.1-0.3%*), iron oxide, methyl amyl ketone, mica, propylene glycol monomethyl ether acetate

GAL WT: 9.98 WT PCT SOLIDS: 56.88 VOL PCT SOLIDS: 42.95
SOLVENT DENSITY: 7.54 VOC LE: 4.3 VOC AP: 4.3 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

551H acrylic polymer-a, butyl acetate, ethylbenzene(0.1-0.3%*), methyl amyl ketone, propylene glycol monomethyl ether acetate, quinophthalone yellow pigment, xylene(2-2%*)

GAL WT: 9.42 WT PCT SOLIDS: 52.75 VOL PCT SOLIDS: 42.06
SOLVENT DENSITY: 7.68 VOC LE: 4.5 VOC AP: 4.5 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

569H acrylic polymer-a, butyl acetate, ethylbenzene(0.2-0.4%*), methyl amyl ketone, monoazo pigment, propylene glycol monomethyl ether acetate, xylene (1-2%*)

MSDS 22

IMRON®6000 POLYURETHANE ENAMEL

January 1, 2001

GAL WT: 9.30 WT PCT SOLIDS: 56.44 VOL PCT SOLIDS: 47.28
SOLVENT DENSITY: 7.68 VOC LE: 4.1 VOC AP: 4.1 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

572H acrylic polymer-e, cellulose acetate butyrate, ethyl acetate, propylene glycol monomethyl ether acetate, toluene(5%*), vm&p naphtha

GAL WT: 8.14 WT PCT SOLIDS: 35.49 VOL PCT SOLIDS: 30.17
SOLVENT DENSITY: 7.53 VOC LE: 5.3 VOC AP: 5.3 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

576H acrylic polymer-a, butyl acetate, ethylbenzene(0.2-0.6%*), heptane, medium mineral spirits, n-butyl alcohol(14%*), xylene(2-2%*)

GAL WT: 7.49 WT PCT SOLIDS: 45.00 VOL PCT SOLIDS: 35.10
SOLVENT DENSITY: 6.35 VOC LE: 4.1 VOC AP: 4.1 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

577H acrylic polymer-a, butyl acetate, ethyl acetate, ethylbenzene (0.6-1.4%*), ethylene glycol monobutyl ether acetate(12%*), methyl amyl ketone, methyl ethyl ketone(3%*), organoclay, polyester resin-b, xylene (4-5%*)

GAL WT: 8.04 WT PCT SOLIDS: 32.91 VOL PCT SOLIDS: 27.06
SOLVENT DENSITY: 7.40 VOC LE: 5.4 VOC AP: 5.4 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

590H acrylic polymer-b, aluminum(23%*), aromatic hydrocarbon-b, butyl acetate, ethylbenzene(0.5-1.3%*), medium mineral spirits, n-butyl alcohol(2%*), propylene glycol monomethyl ether acetate, xylene(4-5%*)

GAL WT: 9.20 WT PCT SOLIDS: 49.25 VOL PCT SOLIDS: 35.14
SOLVENT DENSITY: 7.20 VOC LE: 4.7 VOC AP: 4.7 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

389S dibutyl tin dilaurate(1%), 2,4-pentanedione

GAL WT: 8.13 WT PCT SOLIDS: 1.00 VOL PCT SOLIDS: 0.93
SOLVENT DENSITY: 8.12 VOC LE: 8.0 VOC AP: 8.0 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

759S ethylbenzene(3.5%*), silicone resin, xylene(13%*), 2-phenoxyethanol(4%), 2,4-pentanedione

GAL WT: 8.02 WT PCT SOLIDS: 4.11 VOL PCT SOLIDS: 3.65
SOLVENT DENSITY: 7.99 VOC LE: 7.7 VOC AP: 7.7 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

1280S acrylic polymer-a, butyl acetate, ethyl acetate, ethylbenzene (8.4-8.5%*), methyl isobutyl ketone(3%*), propylene glycol monomethyl ether acetate, toluene(1%*), xylene(26-26%*)

GAL WT: 7.96 WT PCT SOLIDS: 35.97 VOL PCT SOLIDS: 30.70
SOLVENT DENSITY: 7.35 VOC LE: 5.1 VOC AP: 5.1 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

1282S aliphatic polyisocyanate resin, aromatic hydrocarbon-b, butyl acetate, ethylbenzene(3.0-7.5%*), xylene(23-27%*), 1, 6 hexamethylene diisocyanate(0.1%*)

GAL WT: 8.62 WT PCT SOLIDS: 62.99 VOL PCT SOLIDS: 55.68
SOLVENT DENSITY: 7.21 VOC LE: 3.2 VOC AP: 3.2 FLASH POINT: 20
deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

1285S hexyl acetate isomers, propylene glycol monomethyl ether acetate

GAL WT: 7.78 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.78 VOC LE: 7.8 VOC AP: 7.8 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

193S aliphatic polyisocyanate resin, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate(4%*), 1, 6 hexamethylene diisocyanate(0.2%*)

GAL WT: 9.01 WT PCT SOLIDS: 74.99 VOL PCT SOLIDS: 69.94
SOLVENT DENSITY: 7.49 VOC LE: 2.3 VOC AP: 2.3 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

194S aliphatic polyisocyanate resin, butyl acetate, ethyl acetate, oxo-octyl acetate, 1, 6 hexamethylene diisocyanate(0.2%*)

GAL WT: 8.97 WT PCT SOLIDS: 75.00 VOL PCT SOLIDS: 69.66
SOLVENT DENSITY: 7.39 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

V-195S aliphatic polymeric isocyanate, heptane, methyl amyl ketone, methyl ethyl ketone(9%*), toluene(15%*), 1, 6 hexamethylene diisocyanate(0.1%*)

GAL WT: 8.36 WT PCT SOLIDS: 63.70 VOL PCT SOLIDS: 55.19
SOLVENT DENSITY: 6.78 VOC LE: 3.0 VOC AP: 3.0 FLASH POINT: 20
deg F to below 73 deg F H: 3 F: 3 R: 1 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

3400S acrylic polymer-f, butyl acetate, ethylbenzene(0.1-0.3%*), ethylene glycol monobutyl ether acetate(5%*), methyl amyl ketone, methyl ethyl ketone(6%*), mixed dibasic esters, substituted benzotriazole, toluene(6%*)

GAL WT: 8.08 WT PCT SOLIDS: 53.48 VOL PCT SOLIDS: 46.79
SOLVENT DENSITY: 7.07 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

3401S acrylic polymer-d, aromatic hydrocarbon-b, butyl acetate, ethyl 3-ethoxy propionate, ethylbenzene(0.4-1.0%*), ethylene glycol monobutyl ether acetate(11%*), methyl ethyl ketone(36%*), propylene glycol monomethyl ether acetate, toluene(10%*), xylene(3-4%*), 1,2,4-trimethyl benzene (0-2%*)

GAL WT: 7.25 WT PCT SOLIDS: 3.55 VOL PCT SOLIDS: 2.74
SOLVENT DENSITY: 7.19 VOC LE: 7.0 VOC AP: 7.0 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

3440S acrylic polymer-f, butanediolic acid, dimethyl ester, butyl acetate, ethylbenzene(0.1-0.2%*), ethylene glycol monobutyl ether acetate(3%*), methyl amyl ketone, methyl ethyl ketone(3%*), mixed dibasic esters, substituted benzotriazole, toluene(5%*)

GAL WT: 8.12 WT PCT SOLIDS: 53.38 VOL PCT SOLIDS: 47.02
SOLVENT DENSITY: 7.15 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

3480S acetone, acrylic polymer-f, isopropyl alcohol, medium mineral spirits, methyl amyl ketone, mixed dibasic esters, oxo-octyl acetate, substituted benzotriazole

GAL WT: 7.98 WT PCT SOLIDS: 52.38 VOL PCT SOLIDS: 45.12
SOLVENT DENSITY: 6.92 VOC LE: 3.7 VOC AP: 3.5 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

MSDS 22

IMRON®6000 POLYURETHANE ENAMEL

January 1, 2001

EZ-3460S acrylic polymer-f, butanedioic acid, dimethyl ester, butyl acetate, ethylbenzene(0.1-0.2%*[Ⓢ]), ethylene glycol monobutyl ether acetate(3%*[Ⓢ]), methyl amyl ketone, mixed dibasic esters, oxo-octyl acetate, substituted benzotriazole, toluene(5%*[Ⓢ])

GAL WT: 8.14 WT PCT SOLIDS: 53.37 VOL PCT SOLIDS: 47.12
SOLVENT DENSITY: 7.18 VOC LE: 3.8 VOC AP: 3.8 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

EZ-3461S aliphatic polyisocyanate polymer, butyl acetate, ethyl acetate, ethylene glycol monobutyl ether acetate(4%*[Ⓢ])

GAL WT: 8.70 WT PCT SOLIDS: 75.16 VOL PCT SOLIDS: 71.17
SOLVENT DENSITY: 7.49 VOC LE: 2.2 VOC AP: 2.2 FLASH POINT: 20
deg F to below 73 deg F H: 1 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8940S beta-(3-(2h-benzotriazol-2-yl)-4-hydroxy-5-tertbutylphenyl)propionate, ethyl acetate, methyl amyl ketone, polyester resin-a

GAL WT: 8.71 WT PCT SOLIDS: 90.04 VOL PCT SOLIDS: 87.40
SOLVENT DENSITY: 6.89 VOC LE: 0.9 VOC AP: 0.9 FLASH POINT:
100 deg F - 141 deg F H: 2 F: 2 R: 0 OSHA STORAGE: II TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8950S ethyl acetate, ethyl 3-ethoxy propionate, ethylbenzene(0.3-0.9%*[Ⓢ]), methyl ethyl ketone(4%*[Ⓢ]), polyester resin-b, xylene(3-3%*[Ⓢ])

GAL WT: 9.28 WT PCT SOLIDS: 80.96 VOL PCT SOLIDS: 75.68
SOLVENT DENSITY: 7.27 VOC LE: 1.8 VOC AP: 1.8 FLASH POINT: 20
deg F to below 73 deg F H: 1 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

8960S acrylic polymer-a, amorphous silica, beta-(3-2h-benzotriazol-2-yl)-4-hydroxy-5-tertbutylphenyl)propionate, ethyl acetate, isopropyl alcohol, methyl amyl ketone, polyol

GAL WT: 7.99 WT PCT SOLIDS: 67.20 VOL PCT SOLIDS: 61.05
SOLVENT DENSITY: 6.73 VOC LE: 2.6 VOC AP: 2.6 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8970S ethyl 3-ethoxy propionate, methyl ethyl ketone(78%*[Ⓢ])

GAL WT: 6.89 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 6.90 VOC LE: 6.9 VOC AP: 6.9 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8975S acrylic polymer-a, ethylbenzene(0.1-0.2%*[Ⓢ]), isopropyl alcohol, n-butyl alcohol(6%*), toluene(5%*[Ⓢ]), vm&p naphtha

GAL WT: 8.21 WT PCT SOLIDS: 61.50 VOL PCT SOLIDS: 51.44
SOLVENT DENSITY: 6.49 VOC LE: 3.2 VOC AP: 3.2 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8989S dibutyl tin dilaurate(5%*), 2,4-pentanedione

GAL WT: 8.15 WT PCT SOLIDS: 5.00 VOL PCT SOLIDS: 4.67
SOLVENT DENSITY: 8.12 VOC LE: 7.7 VOC AP: 7.7 FLASH POINT: 73
deg F to below 100 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IC TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

8685S ethyl acetate, ethylene glycol monobutyl ether acetate(40%*[Ⓢ]), methyl ethyl ketone(10%*[Ⓢ])

GAL WT: 7.53 WT PCT SOLIDS: 0.00 VOL PCT SOLIDS: 0.00
SOLVENT DENSITY: 7.51 VOC LE: 7.5 VOC AP: 7.5 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

Footnotes:

TSCA: In compliance = In compliance with TSCA Inventory requirements for commercial purposes.

ACGIH = American Conference of Governmental Industrial Hygienists

IARC = International Agency for Research on Cancer

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limit

TWA = Time-Weighted Average

* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

Ⓢ = Clean Air Act Hazardous Air Pollutant.

⚡ = EPCRA Section 302 - Extremely Hazardous Substance.

NOTICE:

The information on 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.

Product Manager - Refinish Sales

Prepared by: E. L. Taylor

DuPont Performance Coatings
MATERIAL SAFETY DATA SHEET
CLEAR ENAMEL TOPCOATS

******* SECTION 1 - Product and Company Identification *******

Manufacturer: E.I. DuPont de Nemours & Co.
 Dupont Performance Coatings
 Wilmington, DE, 19898

Telephone: Product Information: (800) 441-7515
 Medical Emergency: (800) 441-3637
 Transportation Emergency: (800) 424-9300
 (CHEMTREC)

Product: **CLEAR ENAMEL TOPCOATS**

DOT Shipping Name: See DOT addendum.

Hazardous Materials Information: See Section 10.

A 100.0 ppm
 O 100.0 ppm
 D 25.0 ppm
 8 & 12 hour
 TWA

METHYL ETHYL KETONE 78-93-3 71.0 @ 0.0

A 300.0 ppm
 15 min STEL
 D 300.0 ppm
 15 min TWA
 A 200.0 ppm
 O 200.0 ppm
 D 200.0 ppm
 8 & 12 hour
 TWA

******* SECTION 2 - Composition, Information on Ingredients *******

INGREDIENTS	CAS #	VAPOR PRESSURE	EXPOSURE LIMITS				
ACETONE	67-64-1	180.0 @ 68.0 Deg F	A 750.0 ppm 15 min STEL A 500.0 ppm O 1000.0 ppm D 500.0 ppm 8 & 12 hour TWA	POLYESTER RESIN-B	65086-73-9	None	A None O None
				POLYESTER RESIN-C	71010-58-7	None	A None O None
				PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	3.7	D 10.0 ppm 12 hr TWA A None O None
ACRYLIC POLYMER-A	Not Available	None	A None O None	TOLUENE	108-88-3	36.7	O 300.0 ppm CEIL O 200.0 ppm D 50.0 ppm 8 & 12 hour TWA A 50.0 ppm Skin O 500.0 ppm Maximum
ACRYLIC POLYMER-B	80010-53-3	None	A None O None				
AROMATIC HYDROCARBON	64742-95-6	10.0 @ 25.0 Deg C	D 50.0 ppm A None O None	XYLENE	1330-20-7	7.0 @ 25.0 Deg C	A 150.0 ppm 15 min STEL O 100.0 ppm 15 min TWA O 100.0 ppm 15 min STEL D 150.0 ppm 15 min STEL A 100.0 ppm 8 & 12 hour TWA D 00.0 ppm 8 & 12 hour TWA
1-CHLORO-4 (TRIFLUOROMETHYL) BENZENE	98-56-6	5.3	S 25.0 ppm CEIL D 20.0 ppm 8 & 12 hour TWA A None O None				
BUTYL ACETATE	123-86-4	8.0	A 200.0 ppm 15 min STEL A 150.0 ppm O 150.0 ppm	1,2,4-TRIMETHYL BENZENE	95-63-6	7.0 @ 44.4 Deg C	A 25.0 ppm O 25.0 ppm
ETHYL ACETATE	141-78-6	76.0	A 400.0 ppm O 400.0 ppm				
ETHYLBENZENE	100-41-4	7.0	A 125.0 ppm 15 min STEL				

* A = ACGIH, O = OSHA, D = DuPont, S = Supplies limits are 8 hour TWA unless otherwise specified vapor pressure @ 25C unless otherwise noted

MSDS 8 CLEAR ENAMEL TOPCOATS

January 1, 2001

***** SECTION 3 - Hazards Information *****

Potential Health Effects:

Inhalation:

May cause nose and throat irritation. May cause nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion, and unconsciousness. Reports have associated repeated and prolonged overexposure to solvents with permanent brain and nervous system damage. If this product contains or is mixed with an isocyanate activator/hardener, the following health effects may apply: Exposure to isocyanates may cause respiratory sensitization. This effect may be permanent. Symptoms include an asthma-like reaction with shortness of breath, wheezing, cough or permanent lung sensitization. This effect may be delayed for several hours after exposure. Repeated overexposure to isocyanates may cause a decrease in lung function, which may be permanent. Individuals with lung or breathing problems or prior reactions to isocyanates must not be exposed to vapors or spray mist of this product.

Ingestion:

May result in gastrointestinal distress.

Skin or eye contact:

May cause irritation or burning of the eyes. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis.

Other Potential Health Effects In addition to those listed above:

ACETONE

May cause irritation of the mucous membranes. The following medical conditions may be aggravated by exposure: respiratory system, skin. Repeated or prolonged liquid contact may cause skin irritation with discomfort and dermatitis. Overexposure may cause damage to any of the following organs/systems: blood, eyes, kidneys, liver, respiratory system, skin. Aspiration may occur during swallowing or vomiting, resulting in lung damage. Material may be harmful or fatal if swallowed. Ingestion may cause headache, nausea, vomiting, dizziness, and drowsiness.

AROMATIC HYDROCARBON

Laboratory studies with rats have shown that petroleum distillates can cause kidney damage and kidney or liver tumors. These effects were not seen in similar studies with guinea pigs, dogs, or monkeys. Several studies evaluating petroleum workers have not shown a significant increase of kidney damage or an increase in kidney or liver tumors.

BUTYL ACETATE

May cause abnormal liver function. Tests for embryotoxic activity in animals has been inconclusive. Has been toxic to the fetus in laboratory animals at doses that are toxic to the mother.

ETHYL ACETATE

Prolonged and repeated high exposures of laboratory animals resulted in secondary anemia with an increase in white blood cells; fatty degeneration, cloudy swelling and an excess of blood in various organs.

ETHYLBENZENE

Is an IARC, NTP or OSHA carcinogen. Individuals with preexisting diseases of the central nervous system, lungs, liver, or kidneys may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury. Studies in laboratory animals have shown reproductive, embryotoxic and developmental effects.

METHYL ETHYL KETONE

High concentrations have caused embryotoxic effects in laboratory animals. Liquid splashes in the eye may result in chemical burns.

Methyl ethyl ketone has been demonstrated to potentiate (i.e., shorten the time of onset) the peripheral neuropathy caused by either n-hexane or methyl n-butyl ketone. MEK by itself has not been demonstrated to cause peripheral neuropathy.

PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE

May cause eye irritation with discomfort, tearing, or blurred vision. May cause moderate eye burning. Recurrent overexposure may result in liver and kidney injury. May cause irritation of the upper respiratory passages.

TOLUENE

Chromosomal changes in the circulating blood of exposed workers have been reported. The significance of these reports is unclear because of exposure to other substances. Individuals with preexisting diseases of the central nervous system may have increased susceptibility to the toxicity of excessive exposures. Recurrent overexposure may result in liver and kidney injury. High airborne levels have produced irregular heartbeats in animals and occasional palpitations in humans. Rats exposed to very high airborne levels have exhibited high frequency hearing deficits. The significance of this to man is unknown. **WARNING:** This chemical is known to the State of California to cause birth defects or other reproductive harm.

XYLENE

Individuals with preexisting disease of the central nervous system, kidneys, liver, cardiovascular system, lungs, or bone marrow may have increased susceptibility to the toxicity of excessive exposures. Can be absorbed through the skin in harmful amounts. Recurrent overexposure may result in liver and kidney injury. Canada classifies Xylene as a developmental toxin as high exposures to xylenes in some animal studies have been reported to cause health effects on the developing fetus/embryo. These effects were often at levels toxic to the adult animal. The significance of these effects to humans is not known.

***** SECTION 4 - First Aid Measures *****

First Aid Procedures:

Inhalation:

If affected by inhalation of vapor or spray mist, move to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing difficulty persists, or occurs later, consult a physician.

Ingestion:

In the unlikely event of ingestion, **DO NOT INDUCE VOMITING.** Call a physician immediately and have names of ingredients available.

Skin or eye:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes; call a physician. In case of skin contact, wash thoroughly with soap and water. If irritation occurs, contact a physician.

***** SECTION 5 - Firefighting Measures *****

Flash Point (Closed Cup)

See Section 11 for exact values.

Flammable limits

LFL 0.9 % UFL 13.1 %

Extinguishing media:

Universal aqueous film-forming foam, carbon dioxide, dry chemical.

Fire fighting procedures:

Full protective equipment, including self-contained breathing apparatus, is recommended. Water from fog nozzles may be used to prevent pressure build-up.

Fire & explosion hazards:

For flammable liquids, vapor/air will ignite when an ignition source is present. In other cases, when heated above the flash point, emits flammable vapors which, when mixed with air, can burn or be explosive. Fine mists or sprays may be flammable at temperatures below the flash point.

MSDS 8
CLEAR ENAMEL TOPCOATS
January 1, 2001

******* SECTION 6 - Accidental Release Measures *******

Steps to be taken in case material is released or spilled:

Ventilate area. Remove sources of ignition. Prevent skin and eye contact and breathing of vapor. **If the material contains, or is mixed with an isocyanate activator/hardener:** Wear a positive pressure, supplied-air respirator (NIOSH approved TC-19C), eye protection, gloves and protective clothing. Pour liquid decontamination solution over the spill and allow to sit at least 10 minutes. Typical decontamination solutions for isocyanate containing materials are: 20% Surfactant (Tergitol TMN 10) and 80% Water OR 0 -10% Ammonia, 2-5% Detergent and Water (balance) Pressure can be generated. Do not seal waste containers for 48 hours to allow CO2 to vent. After 48 hours, material may be sealed and disposed of properly. If material does not contain or is not mixed with an isocyanate activator/hardener: Wear a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH approved TC-23C), eye protection, gloves and protective clothing. Confine, remove with inert absorbent, and dispose of properly.

******* SECTION 7 - Handling and Storage *******

Precautions to be taken in handling and storing:

Observe label precautions. If combustible (flashpoint between 100 - 200 deg F), keep away from heat, sparks and flame. If flammable (flashpoint less than 100 deg F), also keep away from static discharges and other sources of ignition. If material is extremely flammable (flashpoint less than 20 deg F) or flammable, VAPORS MAY IGNITE EXPLOSIVELY OR CAUSE FLASH FIRE, respectively. Vapors may spread long distances. Prevent buildup of vapors. Close container after each use. Ground containers when pouring. Wash thoroughly after handling and before eating or smoking. Do not store above 120 deg F. If product is waterbased, do not freeze.

Other precautions:

If material is a coating: do not sand, flame cut, braze or weld dry coating without a NIOSH approved respirator or appropriate ventilation.

******* SECTION 8 - Exposure Controls or Personal Protection *******

Engineering controls and work practices:

Ventilation:

Provide sufficient ventilation in volume and pattern to keep contaminants below applicable exposure limits.

Respiratory:

Do not breathe vapors or mists. If this product contains isocyanates or is used with an isocyanate activator/hardener, wear a positive-pressure, supplied-air respirator (NIOSH approved TC-19C) while mixing activator/hardener with paint, during application and until all vapors and spray mist are exhausted. If product does not contain or is not mixed with an isocyanate activator/hardener, a properly fitted air-purifying respirator with organic vapor cartridges (NIOSH TC-23C) and particulate filter (NIOSH TC-84A) may be used. Follow respirator manufacturer's directions for respirator use. Do not permit anyone without protection in the painting area. Individuals with history of lung or breathing problems or prior reaction to isocyanates should not use or be exposed vapor or spray mist if product contains or is mixed with isocyanate activators/hardeners.

Protective clothing:

Neoprene gloves and coveralls are recommended.

Eye protection:

Desirable in all industrial situations. Goggles are preferred to prevent eye irritation. If safety glasses are substituted, include splash guard or side shields.

******* SECTION 9 - Physical and Chemical Properties *******

Evaporation Rate	Slower than Ether
Solubility in water	APPRECIABLE
Vapor Density	Heavier than air
Approx. boiling range (deg C)	-17 - 150 DEG (C)
Approx. freezing range (deg C)	0 - -93 DEG (C)
Gallon weight (lbs/gal)	8.06 - 8.28
Specific gravity	0.97 - 0.99
Percent volatile by volume	65.32 - 76.65
Percent volatile by weight	58.75 - 72.56
Percent solids by volume	23.35 - 34.68
Percent solids by weight	27.44 - 41.25

******* SECTION 10 - Stability and Reactivity *******

Stability:

Stable

Incompatibility (materials to avoid):

water, alcohols, amines

Hazardous decomposition products:

CO, CO2, smoke, and oxides of any heavy metals that are reported in Section 2.

Hazardous polymerization:

Will not occur.

Sensitivity to static discharge:

For flammable materials (flashpoint less than 100 deg F) and combustibles (flashpoint between 100-200 deg F) if heated above the flashpoint, solvent vapors in air may explode if static grounding and bonding is not used during transfer of this product.

Sensitivity to mechanical impact:

Not Applicable

******* SECTION 11 - Additional Information *******

PRODUCT CODE INGREDIENTS (Product Specific)

500S acetone, acrylic polymer-b, 1-chloro-4(trifluoromethyl) benzene, ethylbenzene(0.1-0.2%*@), propylene glycol monomethyl ether acetate, toluene(3%*@)

GAL WT: 8.25 WT PCT SOLIDS: 31.60 VOL PCT SOLIDS: 27.23 SOLVENT DENSITY: 7.76 VOC LE: 4.9 VOC AP: 3.5 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 1 OSHA STORAGE: IA TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

580S acrylic polymer-b, ethyl acetate, ethylbenzene(0.1-0.2%*@), propylene glycol monomethyl ether acetate, toluene(8%*@)

GAL WT: 8.28 WT PCT SOLIDS: 31.58 VOL PCT SOLIDS: 27.29 SOLVENT DENSITY: 7.80 VOC LE: 5.7 VOC AP: 5.7 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

2080S acrylic polymer-b, ethyl acetate, ethylbenzene(0.1-0.2%*@), methyl ethyl ketone(12%*@), polyester resin-c, propylene glycol monomethyl ether acetate, toluene(7%*@)

GAL WT: 8.06 WT PCT SOLIDS: 29.95 VOL PCT SOLIDS: 25.20 SOLVENT DENSITY: 7.55 VOC LE: 5.6 VOC AP: 5.6 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: NO

780S acrylic polymer-b, ethyl acetate, ethylbenzene(0.9-2.2%*@), propylene glycol monomethyl ether acetate, toluene(8%*@), xylene(6-8%*@)

GAL WT: 8.15 WT PCT SOLIDS: 27.44 VOL PCT SOLIDS: 23.35 SOLVENT DENSITY: 7.72 VOC LE: 5.9 VOC AP: 5.9 FLASH POINT: 20 deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

MSDS 8 CLEAR ENAMEL TOPCOATS

January 1, 2001

7800S acrylic polymer-a, aromatic hydrocarbon, butyl acetate, ethyl acetate, ethylbenzene(0.1-0.2%*[Ⓢ]), methyl ethyl ketone(10%*[Ⓢ]), polyester resin-b, propylene glycol monomethyl ether acetate, toluene(2%*[Ⓢ]), xylene(1-1%*[Ⓢ]), 1,2,4-trimethyl benzene(1-6%*)

GAL WT: 8.11 WT PCT SOLIDS: 41.25 VOL PCT SOLIDS: 34.68
SOLVENT DENSITY: 7.30 VOC LE: 4.7 VOC AP: 4.6 FLASH POINT: 20
deg F to below 73 deg F H: 2 F: 3 R: 0 OSHA STORAGE: IB TSCA
STATUS: In compliance PHOTOCHEMICALLY REACTIVE: YES

Footnotes:

TSCA: In compliance = In compliance with TSCA Inventory requirements for commercial purposes.

ACGIH = American Conference of Governmental Industrial Hygienists

IARC = International Agency for Research on Cancer

NTP = National Toxicology Program

OSHA = Occupational Safety and Health Administration

STEL = Short Term Exposure Limit

TWA = Time-Weighted Average

* = Section 313 Supplier Notification: These chemicals are subject to the reporting requirements of Section 313 of the Emergency planning and Right-to-Know act of 1986 and of 40 CFR 372.

Ⓢ = Clean Air Act Hazardous Air Pollutant.

= EPCRA Section 302 - Extremely Hazardous Substance.

NOTICE:

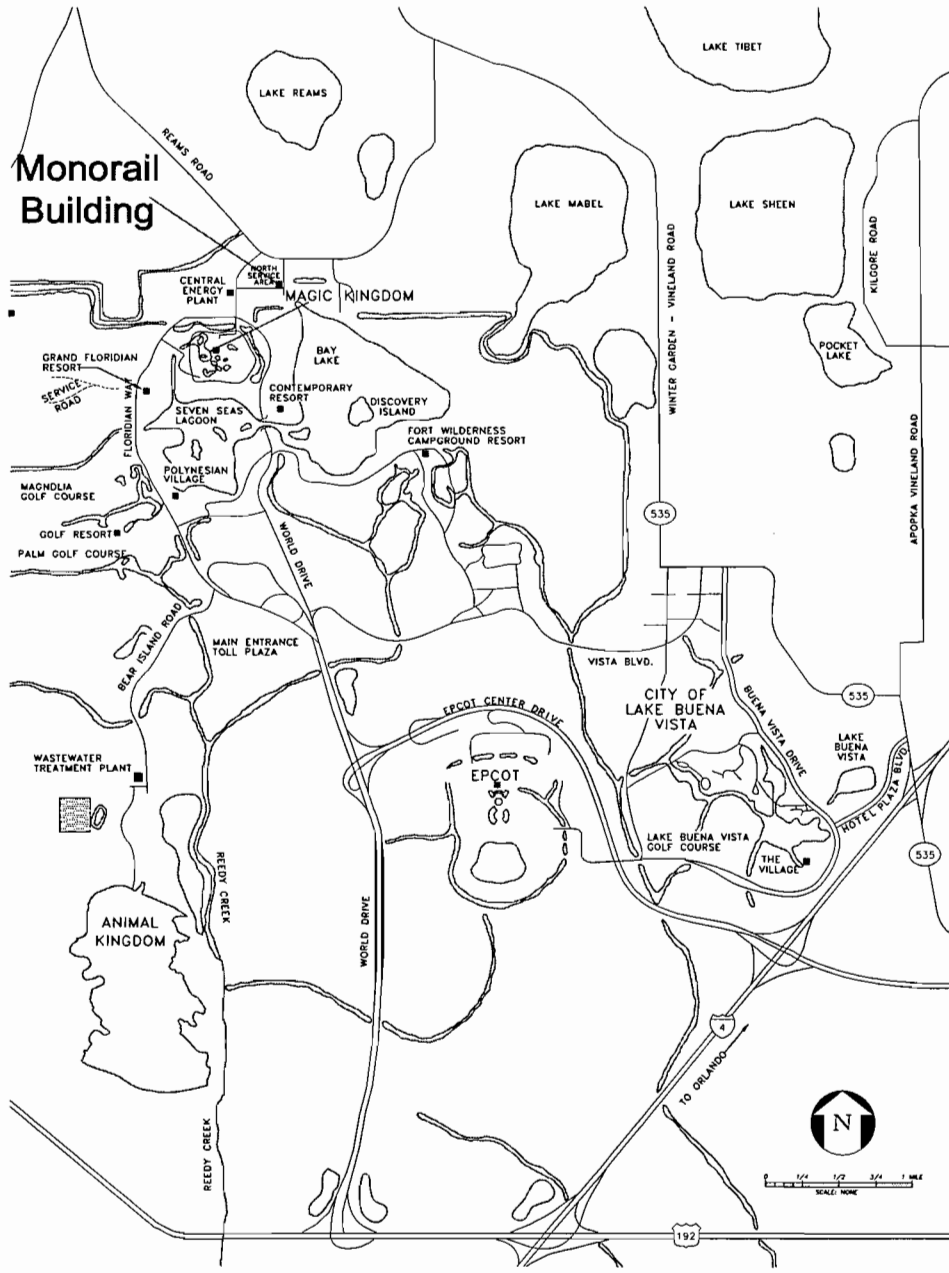
The information on this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Product Manager - Refinish Sales

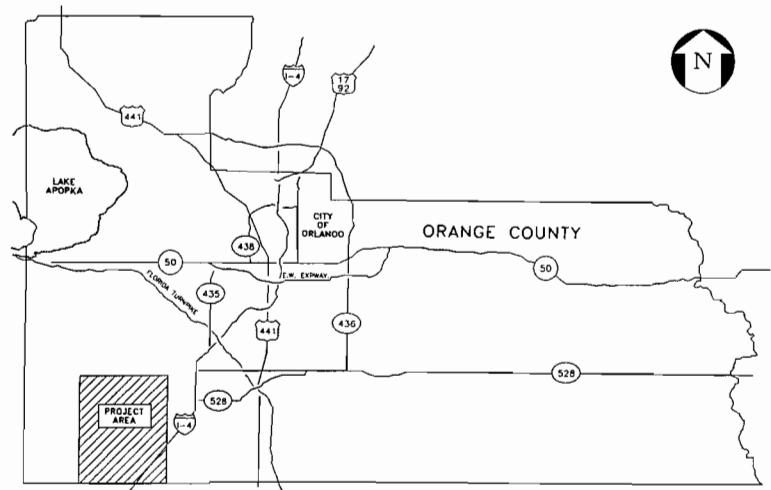
Prepared by: E. L. Taylor

ATTACHMENT B
FACILITY PLOT PLAN
AREA MAP

Monorail Building



SITE LOCATION MAP

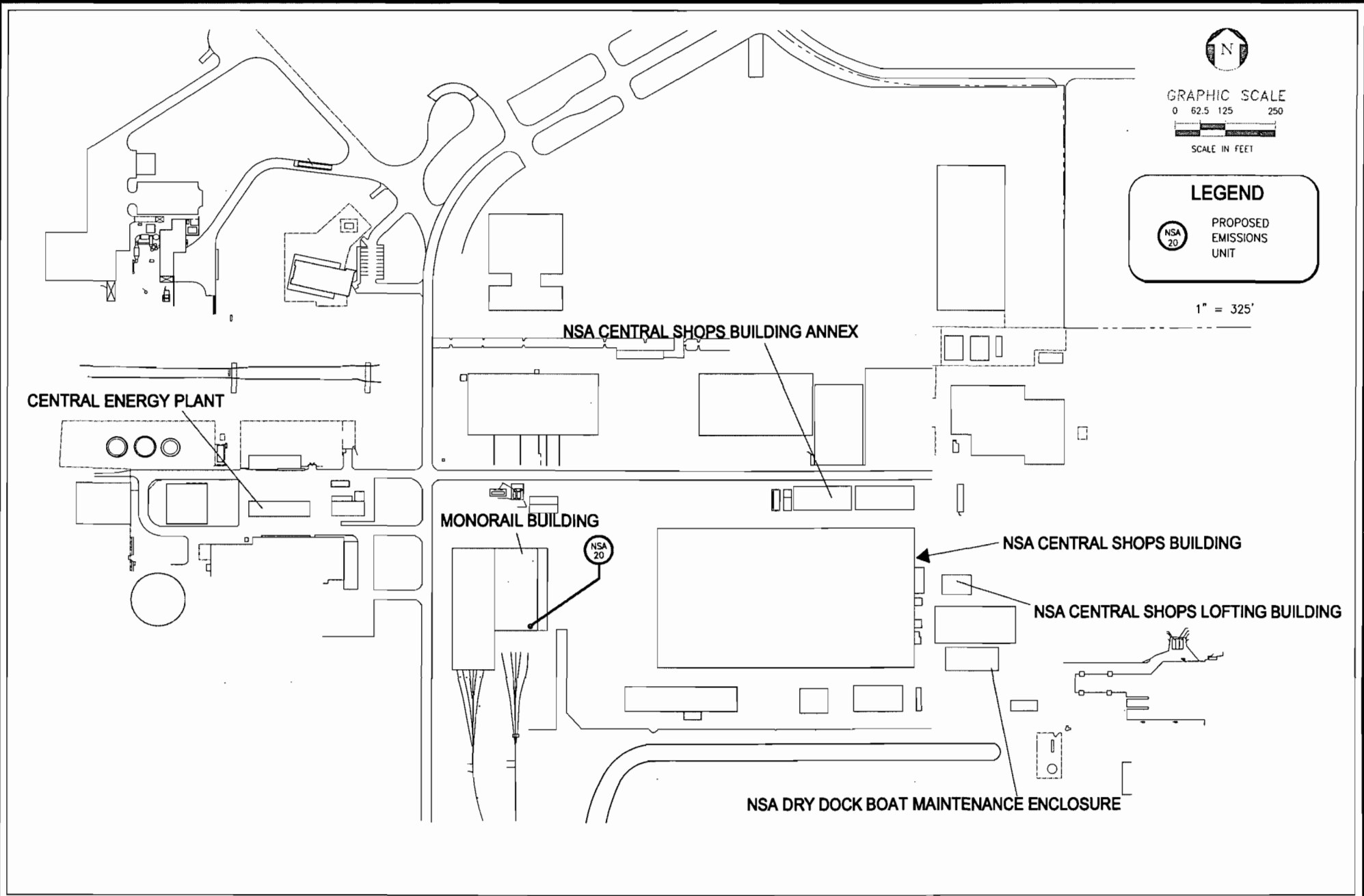


VICINITY MAP



LOCATION MAP

ATTACHMENT B AREA MAP SHOWING FACILITY LOCATION NORTH SERVICE AREA MONORAIL BUILDING

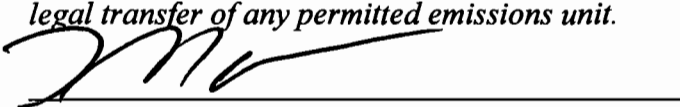


**ATTACHMENT B
FACILITY PLOT PLAN
NORTH SERVICE AREA**

ATTACHMENT C

**RESPONSIBLE OFFICIAL'S STATEMENT
PROFESSIONAL ENGINEER'S CERTIFICATION**

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Lee Schmutde, Vice President	
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Walt Disney World Co. Street Address: PO Box 10000 City: Lake Buena Vista State: Florida Zip Code: 32830-1000	
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (407) 828-1723 Fax: (407) 828-1180	
4. Owner/Authorized Representative or Responsible Official Statement: <i>I, the undersigned, am the owner or authorized representative*(check here [], if so) or the responsible official (check here [✓], if so) of the Title V source addressed in this application, whichever is applicable. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made in this application are true, accurate and complete and that, to the best of my knowledge, any estimates of emissions reported in this application are based upon reasonable techniques for calculating emissions. The air pollutant emissions units and air pollution control equipment described in this application will be operated and maintained so as to comply with all applicable standards for control of air pollutant emissions found in the statutes of the State of Florida and rules of the Department of Environmental Protection and revisions thereof. I understand that a permit, if granted by the Department, cannot be transferred without authorization from the Department, and I will promptly notify the Department upon sale or legal transfer of any permitted emissions unit.</i>  _____ Signature	<u>2-5-01</u> _____ Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: Richard A. Bumar, Jr. Registration Number: 55375
2. Professional Engineer Mailing Address: Organization/Firm: Walt Disney World Co. Street Address: PO Box 10000 City: Lake Buena Vista State: Florida Zip Code: 32830-1000
3. Professional Engineer Telephone Numbers: Telephone: (407) 939-4683 Fax: (407) 934-6988

4. Professional Engineer Statement:

I, the undersigned, hereby certify, except as particularly noted herein, that:*


(1) To the best of my knowledge, there is reasonable assurance that the air pollutant emissions unit(s) and the air pollution control equipment described in this Application for Air Permit, when properly operated and maintained, will comply with all applicable standards for control of air pollutant emissions found in the Florida Statutes and rules of the Department of Environmental Protection; and

(2) To the best of my knowledge, any emission estimates reported or relied on in this application are true, accurate, and complete and are either based upon reasonable techniques available for calculating emissions or, for emission estimates of hazardous air pollutants not regulated for an emissions unit addressed in this application, based solely upon the materials, information and calculations submitted with this application.

If the purpose of this application is to obtain a Title V source air operation permit (check here [], if so), I further certify that each emissions unit described in this Application for Air Permit, when properly operated and maintained, will comply with the applicable requirements identified in this application to which the unit is subject, except those emissions units for which a compliance schedule is submitted with this application.

If the purpose of this application is to obtain an air construction permit for one or more proposed new or modified emissions units (check here [], if so), I further certify that the engineering features of each such emissions unit described in this application have been designed or examined by me or individuals under my direct supervision and found to be in conformity with sound engineering principles applicable to the control of emissions of the air pollutants characterized in this application.

If the purpose of this application is to obtain an initial air operation permit or operation permit revision for one or more newly constructed or modified emissions units (check here [], if so), I further certify that, with the exception of any changes detailed as part of this application, each such emissions unit has been constructed or modified in substantial accordance with the information given in the corresponding application for air construction permit and with all provisions contained in such permit.



Signature
(seal) 55375

2/5/01

Date

* Attach any exception to certification statement.