

Central Florida Testing Laboratories, Inc.

Testing Development and Research

12625 - 40TH STREET NORTH • CLEARWATER, FL 33762

TAMPA BAY AREA (727) 572-9797

FLORIDA 1-800-248-CFTL

FAX (727) 299-0023

July 6, 2000

Mr. Jerry R. Smith, P.E.
State of Florida
Department of Environmental Protection
Post Office Box 2549
Fort Myers, Florida 33902-2549

Subject: Action Craft, Inc.
FDEP File Number 0710128-002-AC

Dear Mr. Smith:

As requested, enclosed please find the revised pages of the FDEP permit application for Action Craft, Inc. These pages reflect the VOC contents of the materials you requested.

If you have any further questions regarding this application, or require any additional information to issue the FDEP permit for this facility, please do not hesitate to contact our office.

Sincerely,

CENTRAL FLORIDA TESTING LABORATORIES, INC.



Russell B. Keith, E.I.
Senior Project Engineer

RBK/rk

enclosures: Four Copies of the Revised Pages of Permit Application

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JUL 11 2000

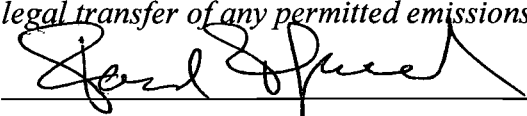
D.E.P. - South District

DEP ROUTING AND TRANSMITTAL SLIP	
TO: (NAME, OFFICE, LOCATION)	3. _____
1. <u>Cindy Phillips - BAR</u>	4. _____
2. <u>Mail Station 5505</u>	5. _____
PLEASE PREPARE REPLY FOR: <input type="checkbox"/> SECRETARY'S SIGNATURE <input type="checkbox"/> DIV/DIST DIR SIGNATURE <input type="checkbox"/> MY SIGNATURE <input type="checkbox"/> YOUR SIGNATURE <input type="checkbox"/> DUE DATE _____ ACTION/DISPOSITION <input type="checkbox"/> DISCUSS WITH ME <input type="checkbox"/> COMMENTS/ADVISE <input type="checkbox"/> REVIEW AND RETURN <input type="checkbox"/> SET UP MEETING <input type="checkbox"/> FOR YOUR INFORMATION <input type="checkbox"/> HANDLE APPROPRIATELY <input type="checkbox"/> INITIAL AND FORWARD <input type="checkbox"/> SHARE WITH STAFF <input type="checkbox"/> FOR YOUR FILES	COMMENTS: Enclosed please find information you requested. <div style="background-color: orange; padding: 5px; text-align: center; font-weight: bold; color: white;">ACTION CRAFT</div> TO FILE - BASED ON CONVERSATIONS WITH JERRY SMITH AND ART LYALL ON 8/2/00, ACTION CRAFT WILL NOT TRIGGER 112(b) BECAUSE THEY ARE PHYSICALLY LIMITED FROM CONSTRUCTING OR RECONSTRUCTING. HOWEVER AOR FOR 1999 HAS 18 TYP VOC AT OVER 5000 HOURS. UNCLEAL HOW GOING TO 8760 HOURS WITH EXISTING EQUIPMENT WILL RAISE VOC EMISSIONS TO THE REQUESTED 80 TYP. CW
FROM: <u>Jerry Smith/SD</u>	DATE: <u>725/2000</u> PHONE: <u>SC 748-6975</u>

DEP 15-026 (12/93)

*Oct 130
167*

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Mr. Paul Guard, President
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Action Craft, Inc. Street Address: 2603 Andalusia Boulevard City: Cape Coral State: Florida Zip Code: 33909
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (941)574-7008 Fax: (941)574-1152
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 _____ Date <u>7-10-00</u>

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: George C. Sinn, Jr., P.E. Registration Number: 16911
2. Professional Engineer Mailing Address: Organization/Firm: Central Florida Testing Laboratories, Inc. Street Address: 12625 - 40th Street North City: Clearwater State: Florida Zip Code: 33762
3. Professional Engineer Telephone Numbers: Telephone: (727)572-9797 Fax: (727)299-0023

RECEIVED

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 on¹ 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 [X], 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 [X], 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

Date

(seal)

* Attach any exception to certification statement.

¹ Data presented on the Material Safety Data Sheets submitted with this application are excluded from this certification statement.

Action Craft, Inc.
Summary Table of VOC Content and Non-Styrene Emissions

Projected Usage 2003	Description	% Styrene	Non-		Non-Styrene HAP (lbs.)	Non-HAP VOC (lbs.)
			Styrene HAP %	Non-HAP VOC %		
1304.5	Orange Tooling Gel	42.3%	4.7%	0.6%	62	8
81586.8	Pearl Gray Gel	37.0%	4.0%	0%	3263	0
70.9	Cameo Gel	31.3%	3.5%	0%	2	0
563.7	Medium Gray Sandable	35.2%	0%	0%	0	0
2322.4	Snook Gray Armorcoat	33.6%	9.7%	0%	225	0
832.6	Crimson Red Armorcoat	31.3%	8.9%	1.4%	74	11
737.6	New Forest Green Armorcoat	31.9%	9.1%	0.8%	67	6
143.3	Seafoam Green Armorcoat	28.7%	9.8%	0%	14	0
362.4	Vivid Blue Armorcoat	32.8%	9.4%	0%	34	0
401.0	White Pigment	0%	0%	0%	0	0
320.5	Blue Pigment	0%	0%	0%	0	0
11.3	Green Pigment	0%	0%	0%	0	0
670.0	Quick Set Super Red Catalyst	0%	56.0%	34.0%	375	228
3868.4	Hi Point 90 Clear Catalyst	0%	47.0%	38.0%	1818	1470
75.7	Dura Glass (gal)	17.5%	0%	0%	0	0
192101.6	Odd Lot Resin	37.8%	0%	0%	0	0
8052.6	FDA Approved Resin	49.0%	0%	0%	0	0
31372.7	Summer Resin	37.8%	0%	0%	0	0
226212.2	Winter Resin	37.6%	0%	0%	0	0
2048.6	Polyester Bonding Compound	30.0%	0%	0%	0	0
61.2	Styrene	100.0%	0%	0%	0	0
4335.5	L-50 Clear Cadox Catalyst	0%	0%	98.0%	0	4249
31163.4	Vinyl Ester Resin	45.9%	0%	0%	0	0
21600.2	"A" Side Pour Foam	0%	39.5%	60.5%	8532	13068
19482.3	"B" Side Pour Foam	0%	0%	17.5%	0	3409
16.1	Lacquer Thinner	0%	67.5%	15.0%	11	2
0.0	Sealer Glaze	0%	0%	30.0%	0	0
16.1	Fairing Compound	27.0%	0%	0%	0	0
161.1	Wax Sol (88% Styrene)	88.0%	0%	0%	0	0
966.3	Edge Wax	0%	0%	75.0%	0	725
96.6	Mold Release Wax	0%	0%	72.5%	0	70
230.3	Scotch Grip Glue	0%	40.0%	60.0%	92	138
1610.5	Lockweld 951 Glue	0.0%	32.8%	21.2%	528	341
1691.0	Bondo (15% styrene)	15.0%	0%	0%	0	0
805.3	Hi Gloss Gelcoat Compound	0%	0%	46.5%	0	374
306.0	Finess it Compound	0%	0.2%	21.5%	1	66
112.7	Tiger Cut Compound	0%	0%	25.0%	0	28
64.4	Self Stripping Liq. Release	0%	0%	15.0%	0	10
644.2	Regular Liquid Release	0%	0%	15.0%	0	97
0.0	Liquid Waz Remover	0%	0%	15.0%	0	0
47803.2				Totals:	21036	30272

Note: The above percentages are based on Material Safety Data Sheets. When precise data are not provided on the MSDS, an average of the percentage range was used to represent a reasonable estimate.

Emissions Unit Information Section 1 of 1 .

Pollutant Detail Information Page 2 of 3 .

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

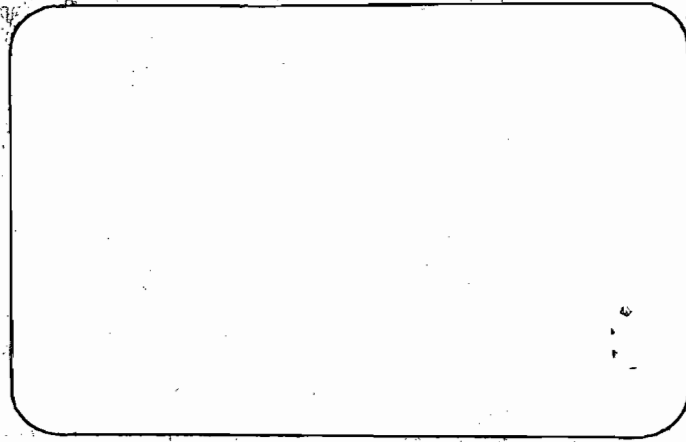
3. Pollutant Emitted: Non-Styrene HAPS	2. Total Percent Efficiency of Control: 0%
3. Potential Emissions: lb/hour	4. Synthetically Limited? <input checked="" type="checkbox"/> 10.5 tons/year
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: Various Reference: MSDS Sheets	7. Emissions Method Code: 2
8. Calculation of Emissions (limit to 600 characters): See spreadsheet on next page.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 2 of 3 .

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
4. Requested Allowable Emissions and Units: 15 tons non-styrene HAPS/year	4. Equivalent Allowable Emissions: lb/hour 15 tons/year
5. Method of Compliance (limit to 60 characters): Compliance will be achieved by controlling raw material usage, and will be demonstrated through accurate record keeping.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Allowable emissions are based on maximum expected production over the next five years.	

Central Florida Testing Laboratories, Inc.

Clearwater, Florida



Testing Development and Research

Engineering Consultants

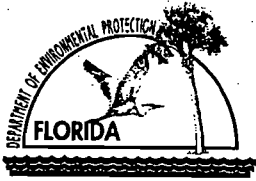
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SEP 22 1999

D.E.P. FORT MYERS

Action Craft, Inc.

FDEP Permit Application

September 1999



Department of Environmental Protection

RECEIVED
SEP 22 1999

Division of Air Resources Management

D.E.P. FORT MYERS

APPLICATION FOR AIR PERMIT - TITLE V SOURCE

See Instructions for Form No. 62-210.900(1)

I. APPLICATION INFORMATION

Identification of Facility

1. Facility Owner/Company Name: ACTION CRAFT, INC.	
2. Site Name: ACTION CRAFT, INC.	
3. Facility Identification Number: 0710128 [] Unknown	
4. Facility Location: Street Address or Other Locator: 2603 Andalusia Boulevard City: Cape Coral County: Lee Zip Code: 33909	
5. Relocatable Facility? [] Yes [X] No	6. Existing Permitted Facility? [X] Yes [] No

Application Contact

1. Name and Title of Application Contact: Russell B. Keith, E.I., Director of Environmental Services	
2. Application Contact Mailing Address: Organization/Firm: Central Florida Testing Laboratories, Inc. Street Address: 12625 - 40th Street North City: Clearwater State: Florida Zip Code: 33762	
3. Application Contact Telephone Numbers: Telephone: (727)572-9797 Fax: (727)299-0023	

Application Processing Information (DEP Use)

1. Date of Receipt of Application:	
2. Permit Number:	
3. PSD Number (if applicable):	
4. Siting Number (if applicable):	

Purpose of Application

Air Operation Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- Initial Title V air operation permit for an existing facility which is classified as a Title V source.
- Initial Title V air operation permit for a facility which, upon start up of one or more newly constructed or modified emissions units addressed in this application, would become classified as a Title V source.

Current construction permit number: _____

- Title V air operation permit revision to address one or more newly constructed or modified emissions units addressed in this application.

Current construction permit number: 0710128-001-AC

Operation permit number to be revised: _____

- Title V air operation permit revision or administrative correction to address one or more proposed new or modified emissions units and to be processed concurrently with the air construction permit application. (Also check Air Construction Permit Application below.)

Operation permit number to be revised/corrected: _____

- Title V air operation permit revision for reasons other than construction or modification of an emissions unit. Give reason for the revision; e.g., to comply with a new applicable requirement or to request approval of an "Early Reductions" proposal.

Operation permit number to be revised: _____

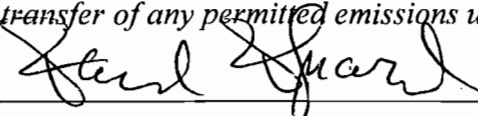
Reason for revision: _____

Air Construction Permit Application

This Application for Air Permit is submitted to obtain: (Check one)

- Air construction permit to construct or modify one or more emissions units.
- Air construction permit to make federally enforceable an assumed restriction on the potential emissions of one or more existing, permitted emissions units.
- Air construction permit for one or more existing, but unpermitted, emissions units.

Owner/Authorized Representative or Responsible Official

1. Name and Title of Owner/Authorized Representative or Responsible Official: Mr. Paul Guard, President
2. Owner/Authorized Representative or Responsible Official Mailing Address: Organization/Firm: Action Craft, Inc. Street Address: 2603 Andalusia Boulevard City: Cape Coral State: Florida Zip Code: 33909
3. Owner/Authorized Representative or Responsible Official Telephone Numbers: Telephone: (941)574-7008 Fax: (941)574-1152
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 9-16-99 _____ Date

* Attach letter of authorization if not currently on file.

Professional Engineer Certification

1. Professional Engineer Name: George C. Sinn, Jr., P.E. Registration Number: 16911
2. Professional Engineer Mailing Address: Organization/Firm: Central Florida Testing Laboratories, Inc. Street Address: 12625 - 40th Street North City: Clearwater State: Florida Zip Code: 33762
3. Professional Engineer Telephone Numbers: Telephone: (727)572-9797 Fax: (727)299-0023

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 on¹ 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 [X], 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 [X], 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) 

Date 9-15-99

* Attach any exception to certification statement.

¹ Data presented on the Material Safety Data Sheets submitted with this application are excluded from this certification statement.

Construction/Modification Information

1. Description of Proposed Project or Alterations:

This project consists of a fiberglass boat manufacturer in Cape Coral, Florida. This facility is currently permitted under FDEP permit number 0710128-001-AC. This facility also manufactures small fiberglass tanks for household water treatment systems.

This application is to increase the allowable raw material usage's in the existing construction permit, and to obtain a Title V operation permit for this facility.

2. Projected or Actual Date of Commencement of Construction: **NA – Existing Facility**

3. Projected Date of Completion of Construction: **NA – Existing Facility**

Application Comment

This application is to increase the allowable raw material usage's in the existing construction permit, and to obtain a Title V operation permit for this facility.

Facility Regulatory Classifications

Check all that apply:

1. <input type="checkbox"/> Small Business Stationary Source?	<input checked="" type="checkbox"/> Unknown
2. <input type="checkbox"/> Major Source of Pollutants Other than Hazardous Air Pollutants (HAPs)?	
3. <input type="checkbox"/> Synthetic Minor Source of Pollutants Other than HAPs?	
4. <input checked="" type="checkbox"/> Major Source of Hazardous Air Pollutants (HAPs)?	
5. <input type="checkbox"/> Synthetic Minor Source of HAPs?	
6. <input type="checkbox"/> One or More Emissions Units Subject to NSPS?	
7. <input type="checkbox"/> One or More Emission Units Subject to NESHAP?	
8. <input checked="" type="checkbox"/> Title V Source by EPA Designation?	
9. Facility Regulatory Classifications Comment (limit to 200 characters):	
<p>This facility will be a Title V source because the allowable styrene (HAP 163) emissions will be greater than 10 tons per year.</p>	

List of Applicable Regulations

62-213 F.A.C.	Title V core list is adopted by reference.
62-4 F.A.C.	
62-210 F.A.C.	
62-296 F.A.C.	
62-297 F.A.C.	

C. FACILITY SUPPLEMENTAL INFORMATION

Supplemental Requirements

1. Area Map Showing Facility Location: <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Facility Plot Plan: <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Process Flow Diagram(s): <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Precautions to Prevent Emissions of Unconfined Particulate Matter: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Fugitive Emissions Identification: <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested *All emissions from this facility are fugitive.
6. Supplemental Information for Construction Permit Application: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
7. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

8. List of Proposed Insignificant Activities: <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
9. List of Equipment/Activities Regulated under Title VI: <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Equipment/Activities On site but Not Required to be Individually Listed <input checked="" type="checkbox"/> Not Applicable
10. Alternative Methods of Operation: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
11. Alternative Modes of Operation (Emissions Trading): <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Identification of Additional Applicable Requirements: <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Risk Management Plan Verification: <input type="checkbox"/> Plan previously submitted to Chemical Emergency Preparedness and Prevention Office (CEPPO). Verification of submittal attached (Document ID: _____) or previously submitted to DEP (Date and DEP Office: _____) <input type="checkbox"/> Plan to be submitted to CEPPO (Date required: _____) <input type="checkbox"/> Not Applicable
14. Compliance Report and Plan: <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable
15. Compliance Certification (Hard-copy Required): <input checked="" type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Not Applicable

III. EMISSIONS UNIT INFORMATION

A separate Emissions Unit Information Section (including subsections A through J as required) must be completed for each emissions unit addressed in this Application for Air Permit. If submitting the application form in hard copy, indicate, in the space provided at the top of each page, the number of this Emissions Unit Information Section and the total number of Emissions Unit Information Sections submitted as part of this application.

**A. GENERAL EMISSIONS UNIT INFORMATION
(All Emissions Units)**

Emissions Unit Description and Status

<p>1. Type of Emissions Unit Addressed in This Section: (Check one)</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a single process or production unit, or activity, which produces one or more air pollutants and which has at least one definable emission point (stack or vent).</p> <p><input type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, a group of process or production units and activities which has at least one definable emission point (stack or vent) but may also produce fugitive emissions.</p> <p><input checked="" type="checkbox"/> This Emissions Unit Information Section addresses, as a single emissions unit, one or more process or production units and activities which produce fugitive emissions only.</p>			
<p>2. Regulated or Unregulated Emissions Unit? (Check one)</p> <p><input checked="" type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is a regulated emissions unit.</p> <p><input type="checkbox"/> The emissions unit addressed in this Emissions Unit Information Section is an unregulated emissions unit.</p>			
<p>2. Description of Emissions Unit Addressed in This Section (limit to 60 characters): The emissions unit in this section consists of the fiberglass boat manufacturing building at Action Craft, Inc., in Cape Coral, Florida.</p>			
<p>4. Emissions Unit Identification Number: ID: 0710128</p>		<p><input type="checkbox"/> No ID <input type="checkbox"/> ID Unknown</p>	
<p>5. Emissions Unit Status Code: A</p>	<p>6. Initial Startup Date: NA -Existing</p>	<p>7. Emissions Unit Major Group SIC Code: 37</p>	<p>8. Acid Rain Unit? <input type="checkbox"/></p>
<p>9. Emissions Unit Comment: (Limit to 500 Characters)</p>			

Emissions Unit Control Equipment

1. Control Equipment/Method Description (Limit to 200 characters per device or method):

Emissions of styrene and other volatile organic compounds are controlled by limiting the quantity of raw materials used at the facility. Compliance will be demonstrated through record keeping of raw materials used.

2. Control Device or Method Code(s): NA

Emissions Unit Details

1. Package Unit:		
Manufacturer:		Model Number:
2. Generator Nameplate Rating:		MW
3. Incinerator Information:		
	Dwell Temperature:	°F
	Dwell Time:	seconds
	Incinerator Afterburner Temperature:	°F

**B. EMISSIONS UNIT CAPACITY INFORMATION
(Regulated Emissions Units Only)**

Emissions Unit Operating Capacity and Schedule

1. Maximum Heat Input Rate:		mmBtu/hr
2. Maximum Incineration Rate:	lb/hr	tons/day
3. Maximum Process or Throughput Rate:	~600 Boats per year	
4. Maximum Production Rate:	~ 600 Boats per year	
5. Requested Maximum Operating Schedule:		
	hours/day 24	days/week 7
	weeks/year 52	hours/year 8760
6. Operating Capacity/Schedule Comment (limit to 200 characters):		

**D. EMISSION POINT (STACK/VENT) INFORMATION
(Regulated Emissions Units Only)**

Emission Point Description and Type

1. Identification of Point on Plot Plan or Flow Diagram? Lamination Building		2. Emission Point Type Code: 3	
3. Descriptions of Emission Points Comprising this Emissions Unit for VE Tracking (limit to 100 characters per point):			
4. ID Numbers or Descriptions of Emission Units with this Emission Point in Common:			
5. Discharge Type Code: R	6. Stack Height: feet	7. Exit Diameter: feet	
8. Exit Temperature: °F	9. Actual Volumetric Flow Rate: acfm	10. Water Vapor: %	
11. Maximum Dry Standard Flow Rate: dscfm		12. Nonstack Emission Point Height: feet	
13. Emission Point UTM Coordinates: Zone: 17 East (km): 404.85 North (km): 2953.67			
14. Emission Point Comment (limit to 200 characters): The emission points consists of the ventilation fans and building openings in the main lamination and assembly building at Action Craft, Inc.			

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 1 of 4.

1. Segment Description (Process/Fuel Type) (limit to 500 characters): This segment consists of the spray application of gelcoat to hull, deck, and other molds in the manufacturing process of fiberglass boats. The segment also includes the quantity of gelcoat (tooling gel) used in the manufacture of the molds.		
2. Source Classification Code (SCC): 30800722	3. SCC Units: TONS COATING APPLIED	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 45 TONS	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 2 of 4.

1. Segment Description (Process/Fuel Type) (limit to 500 characters): This segment consists of the spray application of resin to hull, deck, and other molds in the manufacturing process of fiberglass boats. The segment also includes the quantity of resin used in the manufacture of the molds.		
2. Source Classification Code (SCC): 30800730	3. SCC Units: 1000 POUNDS STARTING MONOMER APPLIED	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 200 (X 10³ pounds styrene) [250 TONS RESIN]	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
9. Segment Comment (limit to 200 characters):		

E. SEGMENT (PROCESS/FUEL) INFORMATION
(All Emissions Units)

Segment Description and Rate: Segment 3 of 4 .

1. Segment Description (Process/Fuel Type) (limit to 500 characters): This segment consists of the grinding, cutting, sanding, drilling, sawing, etc. of the fiberglass components prior to assembly.		
2. Source Classification Code (SCC): 30800701	3. SCC Units: TONS PROCESSED	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: (600 BOATS)	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

Segment Description and Rate: Segment 4 of 4 .

1. Segment Description (Process/Fuel Type) (limit to 500 characters): This segment consists of all of the other pollutant emitting materials used in the manufacturing process of fiberglass boats; including but not limited to, adhesives, foams, solvents, paints, wax, and other miscellaneous material. (Non-solvent containing material or VOC exempt materials are not included in this total)		
2. Source Classification Code (SCC): 30800703, 30800704, 30800720, 30800799	3. SCC Units: TONS USED	
4. Maximum Hourly Rate:	5. Maximum Annual Rate: 25 TONS	6. Estimated Annual Activity Factor:
7. Maximum % Sulfur:	8. Maximum % Ash:	9. Million Btu per SCC Unit:
10. Segment Comment (limit to 200 characters):		

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

1. Pollutant Emitted: Styrene (H163)	2. Total Percent Efficiency of Control: 0%
3. Potential Emissions: lb/hour 30.2 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/> [X]
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: 20% for sprayed resin, 54% for Gelcoat Reference: DARM-PER/GEN-37 (FDEP Interim styrene emission factors)	7. Emissions Method Code: 5
8. Calculation of Emissions (limit to 600 characters): Styrene_{RESIN} = (250 tons resin/year)(~40% styrene)(20% emitted) = 20 tons styrene/year Styrene_{GELCOAT} = (45 tons gelcoat/yr)(~42% styrene)(54% emitted) = 10.2 tons styrene/yr Total Styrene = 20 tons styrene/year + 10.2 tons styrene/year = 30.2 tons styrene/year	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 1 of 3 .

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
2. Requested Allowable Emissions and Units: 40 tons styrene/year	4. Equivalent Allowable Emissions: lb/hour 40 tons/year
5. Method of Compliance (limit to 60 characters): Compliance will be achieved by controlling raw material usage, and will be demonstrated through accurate record keeping.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Allowable emissions are based on maximum expected production over the next five years.	

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

3. Pollutant Emitted: Non-Styrene HAPS	2. Total Percent Efficiency of Control: 0%
3. Potential Emissions: lb/hour 7.62 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/>
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: Various Reference: MSDS Sheets	7. Emissions Method Code: 2
8. Calculation of Emissions (limit to 600 characters): See spreadsheet on next page.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 2 of 3 .

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
4. Requested Allowable Emissions and Units: 15 tons non-styrene HAPS/year	4. Equivalent Allowable Emissions: lb/hour 15 tons/year
5. Method of Compliance (limit to 60 characters): Compliance will be achieved by controlling raw material usage, and will be demonstrated through accurate record keeping.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Allowable emissions are based on maximum expected production over the next five years.	

Projected Usage 2003	Description	% Styrene	Non-Styrene HAP %	Non-HAP VOC %	Non-Styrene HAP (lbs.)	Non-HAP VOC (lbs.)
1304.5	Orange Tooling Gel	42.3%	4.7%	0.6%	61.7947855	7.5433867
81586.8	Pearl Gray Gel	37.0%	4.0%		3263.47304	
70.9	Cameo Gel	31.3%	3.5%		2.4801854	
563.7	Medium Gray Sandable					
2322.4	Snook Gray Armorcoat					
	Forest Green Armorcoat	37.0%	5.0%			
832.6	Crimson Red Armorcoat	31.3%	8.9%	1.4%	74.287576	11.288846
737.6	New Forest Green Armorcoat	31.9%	9.1%	0.8%	67.2924869	5.9823423
143.3	Seafoam Green Armorcoat					
362.4	Vivid Blue Armorcoat	32.8%	9.4%		34.0477919	
	Yellow Armorcoat					
	Black Armorcoat	32.9%	9.4%	0.3%		
	Light Blue Armorcoat					
401.0	White Pigment					
320.5	Blue Pigment					
11.3	Green Pigment					
670.0	Quick Set Super Red Catalyst		56.0%	34.0%	375.18441	227.79053
	DDM-9 Clear Catalyst					
3868.4	Hi Point 90 Clear Catalyst		47.0%	38.0%	1818.16916	1470.0091
75.7	Dura Glass (gal)					
192101.6	Odd Lot Resin	60.0%	1.0%	3.0%	1921.01633	5763.049
8052.6	FDA Approved Resin					
31372.7	Summer Resin	47.5%				
226212.2	Winter Resin					
2048.6	Polyester Bonding Compound	30.0%				
61.2	Styrene	100.0%				
4335.5	L-50 Clear Cadox Catalyst			98.0%		4248.7831
31163.4	Vinyl Ester Resin	45.9%				
21600.2	"A" Side Pour Foam					
19482.3	"B" Side Pour Foam					
16.1	Lacquer Thinner	15.0%	67.5%		10.8709425	2.415765
	Sealer Glaze					
16.1	Fairing Compound					
161.1	Wax Sol					
966.3	Edge Wax					
96.6	Mold Release Wax					
230.3	Scotch Grip Glue					
1610.5	Lockweld 751 Glue					
1691.0	Bondo					
805.3	Hi Gloss Gelcoat Compound					
306.0	Finess it Compound					
112.7	Tiger Cut Compound.					
64.4	Self Stripping Liq. Release	15.0%				9.66306
644.2	Regular Liquid Release	15.0%				96.6306
	Liquid Waz Remover	15.0%				
47803.2				Totals:	15246.4	23577.6

Emissions Unit Information Section 1 of 1.

Pollutant Detail Information Page 3 of 3.

G. EMISSIONS UNIT POLLUTANT DETAIL INFORMATION
(Regulated Emissions Units -
Emissions-Limited and Preconstruction Review Pollutants Only)

Potential/Fugitive Emissions

5. Pollutant Emitted: NON-HAP VOC	2. Total Percent Efficiency of Control: 0%
3. Potential Emissions: lb/hour 11.8 tons/year	4. Synthetically Limited? <input checked="" type="checkbox"/>
5. Range of Estimated Fugitive Emissions: [] 1 [] 2 [] 3 _____ to _____ tons/year	
6. Emission Factor: Various Reference: MSDS	7. Emissions Method Code: 2
8. Calculation of Emissions (limit to 600 characters): See spreadsheet on previous page.	
9. Pollutant Potential/Fugitive Emissions Comment (limit to 200 characters):	

Allowable Emissions Allowable Emissions 3 of 3.

1. Basis for Allowable Emissions Code: OTHER	2. Future Effective Date of Allowable Emissions:
6. Requested Allowable Emissions and Units: 25 tons NON-HAP VOC/year	4. Equivalent Allowable Emissions: lb/hour 25 tons/year
5. Method of Compliance (limit to 60 characters): Compliance will be achieved by controlling raw material usage, and will be demonstrated through accurate record keeping.	
6. Allowable Emissions Comment (Desc. of Operating Method) (limit to 200 characters): Allowable emissions are based on maximum expected production over the next five years.	

H. VISIBLE EMISSIONS INFORMATION
(Only Regulated Emissions Units Subject to a VE Limitation)

Visible Emissions Limitation: Visible Emissions Limitation _____ of _____

1. Visible Emissions Subtype: This section not applicable.	2. Basis for Allowable Opacity: [] Rule [] Other
3. Requested Allowable Opacity: Normal Conditions: _____ % Exceptional Conditions: _____ % Maximum Period of Excess Opacity Allowed: _____ min/hour	
4. Method of Compliance:	
5. Visible Emissions Comment (limit to 200 characters):	

I. CONTINUOUS MONITOR INFORMATION
(Only Regulated Emissions Units Subject to Continuous Monitoring)

Continuous Monitoring System: Continuous Monitor _____ of _____

1. Parameter Code: Not Applicable	2. Pollutant(s):
3. CMS Requirement:	[] Rule [] Other
4. Monitor Information: Manufacturer: Model Number: _____ Serial Number: _____	
5. Installation Date:	6. Performance Specification Test Date:
7. Continuous Monitor Comment (limit to 200 characters):	

**J. EMISSIONS UNIT SUPPLEMENTAL INFORMATION
(Regulated Emissions Units Only)**

Supplemental Requirements

1. Process Flow Diagram <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
2. Fuel Analysis or Specification <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
3. Detailed Description of Control Equipment <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
4. Description of Stack Sampling Facilities <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
5. Compliance Test Report <input type="checkbox"/> Attached, Document ID: _____ <input type="checkbox"/> Previously submitted, Date: _____ <input checked="" type="checkbox"/> Not Applicable
6. Procedures for Startup and Shutdown <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
7. Operation and Maintenance Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable <input type="checkbox"/> Waiver Requested
8. Supplemental Information for Construction Permit Application <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
9. Other Information Required by Rule or Statute <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
10. Supplemental Requirements Comment:

Additional Supplemental Requirements for Title V Air Operation Permit Applications

11. Alternative Methods of Operation <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
12. Alternative Modes of Operation (Emissions Trading) <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
13. Identification of Additional Applicable Requirements <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
14. Compliance Assurance Monitoring Plan <input type="checkbox"/> Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable
15. Acid Rain Part Application (Hard-copy Required) <input type="checkbox"/> Acid Rain Part - Phase II (Form No. 62-210.900(1)(a)) Attached, Document ID: _____ <input type="checkbox"/> Repowering Extension Plan (Form No. 62-210.900(1)(a)1.) Attached, Document ID: _____ <input type="checkbox"/> New Unit Exemption (Form No. 62-210.900(1)(a)2.) Attached, Document ID: _____ <input type="checkbox"/> Retired Unit Exemption (Form No. 62-210.900(1)(a)3.) Attached, Document ID: _____ <input type="checkbox"/> Phase II NOx Compliance Plan (Form No. 62-210.900(1)(a)4.) Attached, Document ID: _____ <input type="checkbox"/> Phase NOx Averaging Plan (Form No. 62-210.900(1)(a)5.) Attached, Document ID: _____ <input checked="" type="checkbox"/> Not Applicable

List of Proposed Exempt Activities at Action Craft, Inc.

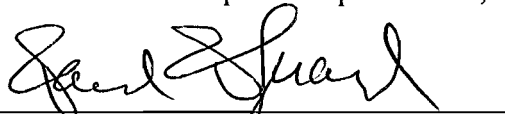
1. Manually operated equipment used for buffing, polishing, carving, cutting, drilling, routing, sanding, sawing, trimming, machining, surface grinding or turning.
2. Polishing and buffing operations, including rubbing compound
3. Vehicle service and maintenance equipment, and related materials
4. Welding Equipment including acetylene torch and related materials
5. Fire and Safety Equipment
6. Space Heaters
7. Office Activities
8. Maintenance of grounds and equipment
9. Forklift operations
10. Acetone usage
11. Soldering activities

Compliance Report and Plan

Action Craft, Inc., manufacturers fiberglass boats at their facility in Cape Coral, Florida. Upon submittal of this permit application, this facility will be in compliance with the applicable Title V regulations in Section 62-213 F.A.C.

Compliance Certification

I, the undersigned, am the responsible official as defined in Chapter 62-210.200, F.A.C., of the Title V source for which this compliance report is being submitted. I hereby certify, based on information and belief formed after reasonable inquiry, that the statements made and data contained in this compliance report are true, accurate, and complete.

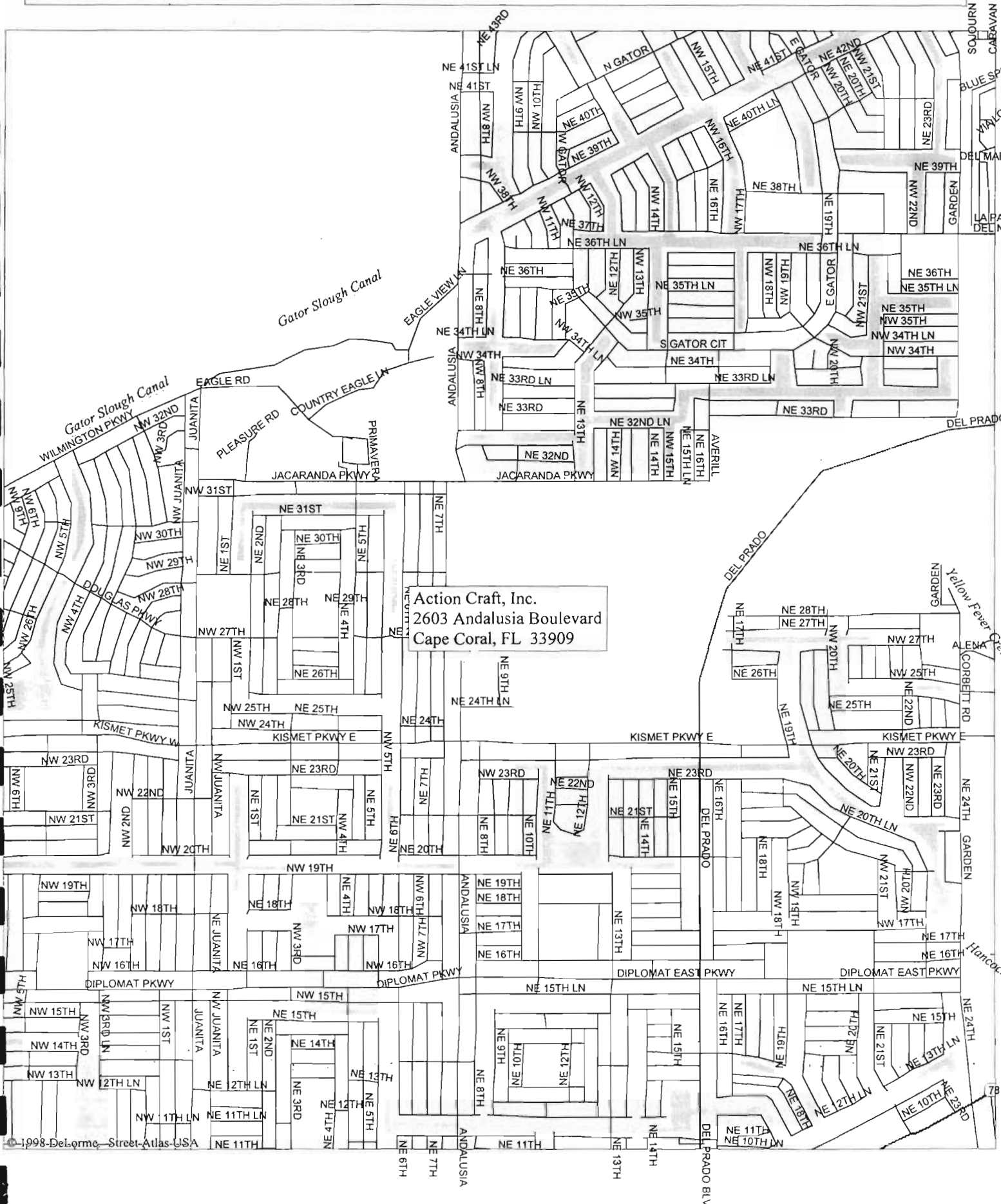


Mr. Paul Guard, President

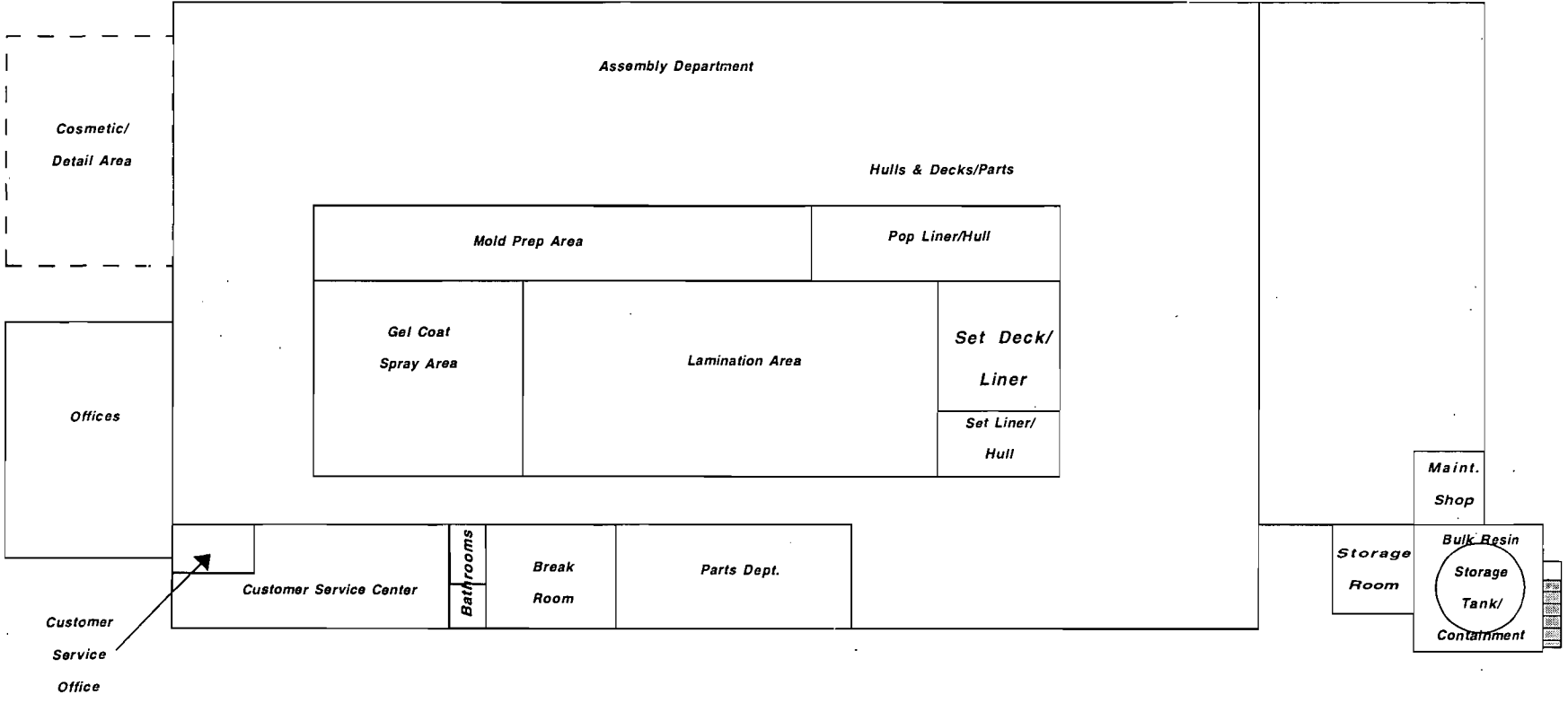
9-16-99


Date

Action Craft, Inc.



Action Craft, Inc.
2603 Andalusia Boulevard
Cape Coral, FL 33909

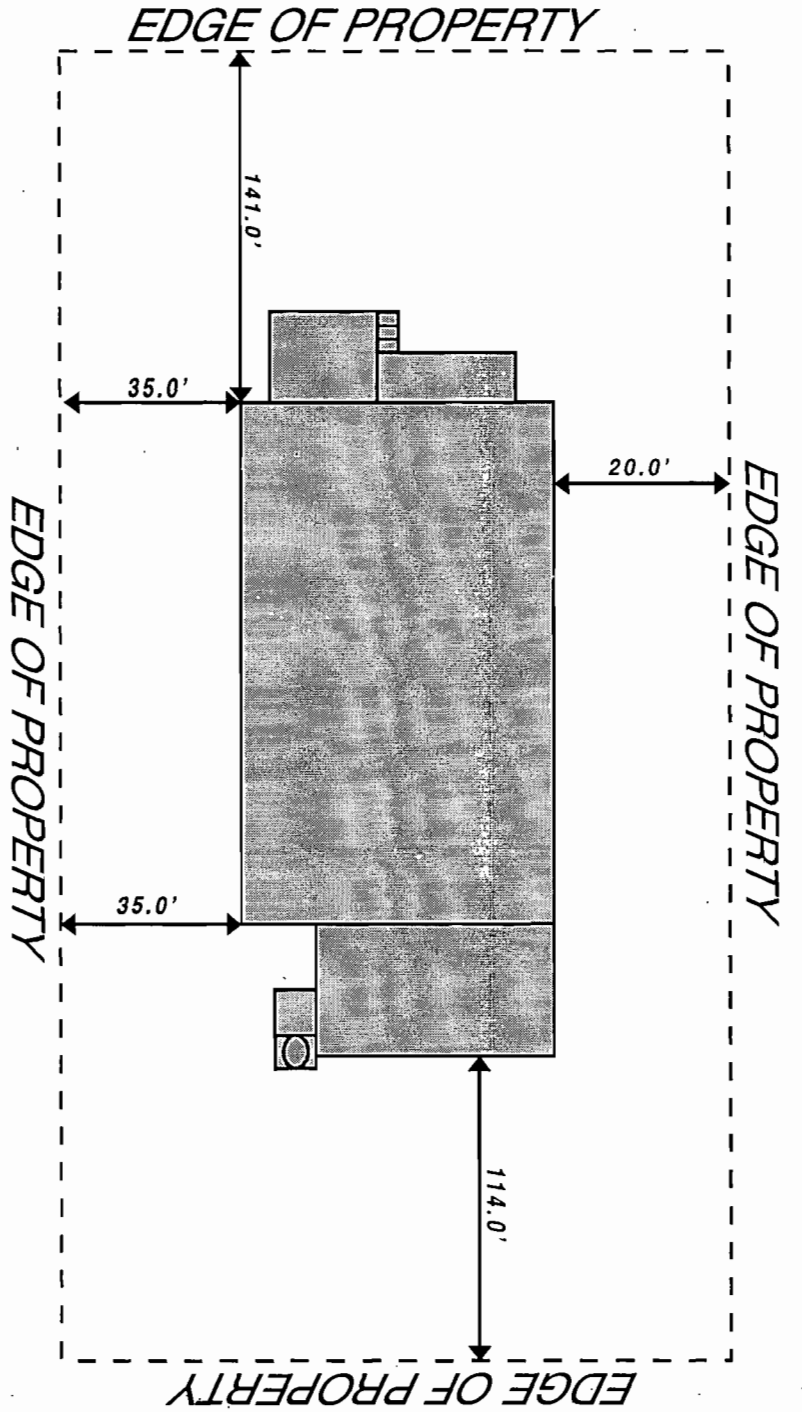
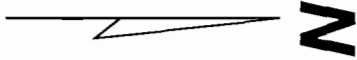


			Central Florida Testing Laboratories 12625-40TH Street North Clearwater, Fl. 33762		
SCALE: NTS	APPROVED BY:	DRAWN BY: C.L.B.			
DATE: 7-8-1999		REVISED:			
Action Craft Coastline Boats 2603 Andalusia Blvd. Cape Coral, Fl. 33909					
BUILDING PLAN FOR ACTION CRAFT					

Southbound Lanes

ANDALUSIA BOULEVARD

Northbound Lanes



Central Florida Testing Laboratories
 12625-40TH Street North
 Clearwater, FL 33762

SCALE: NTS
 DATE: 7-8-1999
 DRAWN BY: C.L.B.
 REVIEWED BY:

Action Craft Coastline Boats
 2603 Andalusia Blvd, Cape Coral, FL 33909
 PROPERTY LAYOUT FOR ACTION CRAFT

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR
DESCRIPTION: FLEXTBLE MED GRAY SANDING
PRODUCT CODE IDENTITY: 949A083
NPCA HMIS RATING: H 2* F 3 R 2

REVISION: 01
LAST REVISED: 05-28-97
DATE OF ISSUE: 05-14-98

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

PREPARED BY:
HAZARD COMMUNICATION DEPT.

CUSTOMER NAME: ACTION CRAFT
543772 2603 ANDALUSIA BLVD

INFORMATION TELEPHONE:

CAPE CORAL FL 33909
ATTENTION: NORMAN

COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

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

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

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

SECTION II INGREDIENTS

1
CAS# 001333-86-4
CARBON BLACK
PCT BY WT: .1390
EXPOSURE LIMIT:

ACGIH TLV/TWA: 3.5 MG/CU.M.
OSHA PEL/TWA: 3.5 MG/CU.M.
LD50, Oral: NOT AVAILABLE
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE

2
CAS# 013463-67-7
TITANIUM DIOXIDE
PCT BY WT: 1 - 5
EXPOSURE LIMIT:

ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)
OSHA PEL/TWA: 10 MG/CU.M. (TOTAL DUST)
LD50, Oral: >7500 MG/KG (RAT)
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE

3
CAS# 014807-96-6

COOK COMPOSITES AND POLYMERS CO.
MATERIAL SAFETY DATA SHEET

949A083

TALC (HYDROUS MAGNESIUM SILICATE)

PCT BY WT: 10 - 20

EXPOSURE LIMIT:

ACGIH TLV/TWA:	2 MG/CU.M., RESPIRABLE DUST
OSHA PEL/TWA:	2 MG/CU.M., RESPIRABLE DUST
LD50, Oral:	NOT AVAILABLE
LD50, Dermal:	NOT AVAILABLE
LC50, Inhalation:	NOT AVAILABLE

4 N)

CAS# 001332-58-7
ALUMINUM SILICATE (KAOLI)

PCT BY WT: 10 - 20

EXPOSURE LIMIT:

ACGIH TLV/TWA:	10 MG/CU.M.
OSHA PEL/TWA:	10MG/CU.M. (TOT DUST); 5MG/CU.M. (RESPIRBL FRACT
LD50, Oral:	ALUMINUM SILICATE (KAOLIN)

5

UNSATURATED POLYESTER RESIN

ON TSCA INVENTORY AND CEPA DOMESTIC SUBSTANCES LIST CAS# PROPRIETARY

PCT BY WT: 30 - 40

EXPOSURE LIMIT:

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

6

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 35.1800 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

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

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 293.00 F

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 10.83380 LB/GL

Theoretical Specific Gravity, Calculated: 1.3020

Maximum Theoretical VOC, Calculated: 3.8630 lb/gal
--If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: GRAY

Odor: MODERATE AROMATIC

Odor Threshold: -N/A

pH: -N/A

Freezing Point: -N/A

DATE PRINTED: 3/12/1998

PAGE 1
MSDS NO. 11-076288

Cadox L-50a

SECTION 1. CHEMICAL PRODUCT AND COMPANY INFORMATION

PRODUCT NAME

Cadox L-50a

CHEMICAL NAME

Methyl ethyl ketone peroxide in solution

SYNONYM

MEKP

CHEMICAL FORMULA

Mixture

CAS #

MIXTURE

CHEMICAL FAMILY

Organic peroxides/ketone peroxides

MANUFACTURERS NAME

Akzo Nobel Chemicals Inc.

PRODUCT/TECHNICAL INFORMATION

1-800-828-7929

ADDRESS

300 South Riverside Plaza
Chicago, IL 60606

MEDICAL/HANDLING EMERGENCY

1-914-693-6946

COUNTRY

USA

TRANSPORTATION EMERGENCY

CHEMTREC 1-800-424-9300

PRODUCT USE

Polymerization initiator

REVISION DATE

2/25/1998

ISSUE DATE

2/11/1997

REVISION NO.

006

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE DESCRIPTION

PERCENT

CAS#

Methyl ethyl ketone peroxide (MEKP)
Hydrogen peroxide
2,2,4-Trimethylpentanediol-1,3-diisobutyrate
Water

30.000- 35.000
0.001- 3.000
60.000- 70.000
0.001- 2.000

1338-23-4
7722-84-1
6846-50-0
7732-18-5

*Non-HAP
VOC*

SECTION 3. HAZARDS IDENTIFICATION

Appearance & Odor

Clear, colorless liquid with a faint ketone odor.

STATEMENT OF HAZARDS

DANGER!
ORGANIC PEROXIDE.
HEAT OR CONTAMINATION MAY CAUSE HAZARDOUS DECOMPOSITION.
CAUSES SEVERE EYE AND SKIN BURNS.
CAUSES RESPIRATORY TRACT IRRITATION.
COMBUSTIBLE LIQUID AND VAPORS.

Fire & Explosion Hazards

This product is a combustible liquid. Peroxides and peroxide decomposition products are flammable and can ignite with explosive force if confined.

Primary Route of Exposure

Skin and eye contact and inhalation of vapor are the principal routes of exposure to this product.

Inhalation Acute Exposure

Inhalation of vapor, mist or aerosol is expected to be severely irritating to the respiratory tract.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR®
 DESCRIPTION: FLEXIBLE MED GRAY SANDING
 PRODUCT CODE IDENTITY: 949A083
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 01
 LAST REVISED : 05-28-97
 DATE OF ISSUE: 05-14-98

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

CUSTOMER NAME: ACTION CRAFT
 543772 2503 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541

CAPE CORAL FL 33909
 ATTENTION: NORMAN

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

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

SECTION II INGREDIENTS

1
 CAS# 001333-86-4
 CARBON BLACK
 PCT BY WT: .1390
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 3.5 MG/CU.M.
 OSHA PEL/TWA: 3.5 MG/CU.M.
 LD50, Oral: NOT AVAILABLE
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

2
 CAS# 013463-67-7
 TITANIUM DIOXIDE
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)
 OSHA PEL/TWA: 10 MG/CU.M. (TOTAL DUST)
 LD50, Oral: >7500 MG/KG (RAT)
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

3
 CAS# 014807-96-6

COOK COMPOSITES AND POLYMERS CO.
MATERIAL SAFETY DATA SHEET

949A083

TALC (HYDROUS MAGNESIUM SILICATE)

PCT BY WT: 10 - 20

EXPOSURE LIMIT:

ACGIH TLV/TWA:	2 MG/CU.M., RESPIRABLE DUST
OSHA PEL/TWA:	2 MG/CU.M., RESPIRABLE DUST
LD50, Oral:	NOT AVAILABLE
LD50, Dermal:	NOT AVAILABLE
LC50, Inhalation:	NOT AVAILABLE

4 N)

CAS# 001332-58-7

ALUMINUM SILICATE (KAOLIN)

PCT BY WT: 10 - 20

EXPOSURE LIMIT:

ACGIH TLV/TWA:	10 MG/CU.M.
OSHA PEL/TWA:	10MG/CU.M. (TOT DUST); 5MG/CU.M. (RESPIRBL FRACT)
LD50, Oral:	ALUMINUM SILICATE (KAOLIN)

5

UNSATURATED POLYESTER RESIN

ON TSCA INVENTORY AND CEPA DOMESTIC SUBSTANCES LIST CAS# PROPRIETARY

PCT BY WT: 30 - 40

EXPOSURE LIMIT:

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

6

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 35.1800 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA:	50 PPM (SKIN) (213 MG/CU.M.)
ACGIH TLV/STEL:	100 PPM (SKIN) (426 MG/CU.M.)
OSHA PEL/TWA:	50 PPM
OSHA PEL/CEILING:	ACCEPTABLE PEAK (5 MIN/3 HR) - 500 PPM MAX.
OSHA PEL/STEL:	ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
LD50, Oral:	4.37 G/KG (RAT)
LD50, Dermal:	>5 G/KG (RABBIT)
OTHER:	LCLO: 5000 PPM/8H (RAT)

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 293.00 F

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 10.83380 LB/GAL

Theoretical Specific Gravity, Calculated: 1.3020

Maximum Theoretical VOC, Calculated: 3.8630 lb/gal

--If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: GRAY

Odor: MODERATE AROMATIC

Odor Threshold: -N/A

pH: -N/A

Freezing Point: -N/A

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT ID : CR-0425
 TRADE NAME : PATCHING RESIN SOLUTION
 FORMULA ID : CR-0425
 FORMULA VERSION NUMBER :
 MSDS PREPARATION DATE : 02-19-98
 MANUFACTURER IDENTIFICATION:
 NAME : NESTE POLYESTER, INC.
 ADDRESS : 5106 WHEELER AVE

FORT SMITH AR 72901

TELEPHONE : 501/646-7865
 EMERGENCY CONTACT : Richard Honebrink
 EMERGENCY TELEPHONE : CHEMTREC 800-424-9300

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1. SYTRENE
 CAS# 100425
 PCT BY WT: 68.7720 LEL 1.10
 EXPOSURE LIMIT:
 OSHA PEL/TWA: 50 ppm (215mg/M3) 8-hour TWA
 OSHA STEL: 100 ppm (425mg/M3)
 ACGIH TLV/TWA: 50 ppm (215mg/M3)
 IARC: 2B ("possible")

 This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

 This substance is classified as a hazardous air pollutant.

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EYE:
 Exposure can cause eye irritation. Symptoms may include stinging, tearing, redness, and swelling.
 SKIN:
 Exposure can cause skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking skin burns and skin damage. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.
 INHALATION:
 Inhalation of excessive amounts can cause drowsiness, memory loss, dizziness, and loss of coordination.

999

Catalyst

0227555

002

WITCO MATERIAL SAFETY DATA SHEET

QUICKSET(R) SUPER RED

PAGE 1

Product Code: 260 0125

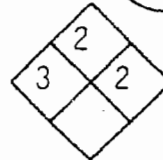
CAS NO: 1338-23-4

NFPA HAZARD RATING
4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant

Fire

7/2/97

Health



Reactivity

Special

HMIS HAZARD INDEX
Hazardous 4 - Severe
Materials 3 - Serious
Identification 2 - Moderate
System 1 - Slight
0 - Minimal

HMIS RATINGS
Health.....
Flammability.....
Reactivity.....
Personal protection.....

DIVISION AND LOCATION---SECTION I

Division: POLYMER ADDITIVES GROUP

Location: MARSHALL, TEXAS

P.O. BOX 1439, HWY 59 & BUSSEY RD, MARSHALL, TX, 75671

Emergency Telephone Number: (903) 938-5141 or Chemtrec (800) 424-9300

Transportation Emergency: CHEMTREC 1-(800) 424-9300 (U.S. and Canada)

CHEMICAL AND PHYSICAL PROPERTIES---SECTION II

Chemical Name:

methyl ethyl ketone peroxide

Formula: not applicable

Hazardous Decomposition Products:

carbon monoxide and carbon dioxide from burning.

Incompatibility (Keep away from):

strong acids, bases, promoters, accelerators, readily oxidizables, and metal salts.

Toxic and Hazardous Ingredients:

methyl ethyl ketone peroxide

34 +/- 2

CAS # 1338-23-4

(9% Active oxygen max.)

dimethylphthalate

56 +/- 2

131-11-3

Form: liquid

Odor: slightly pungent

Appearance: clear

Color: red

Specific Gravity (water=1): 1.125

Boiling Point: no data available, decomposes over 68°C (155°F)

Melting Point: not applicable

Solubility in Water (by weight %): less than 2 at 25°C

Volatile (by weight %): less than 3

Evaporation Rate: not applicable

Vapor Pressure (mm Hg at 20°C): not applicable

Vapor Density (air=1): not applicable

pH (as is): no data available

Stability: Product is stable when stored at recommended temperatures

Viscosity SUS at 100°F: 15-16 centistokes at 25°C (77°F)

(Continued on next page)

**BEST AVAILABLE COPY
MATERIAL SAFETY DATA SHEET**

*Allen
Paul dimarco* ✓

No.: _____

Product Code No.: _____

UN No. _____

MANUFACTURER'S NAME <p align="center">ALCHEMY-South, Ltd.</p>	
STREET ADDRESS <p align="center">646 Owenby Drive</p>	
CITY, STATE, AND ZIP CODE <p align="center">Marietta, Georgia 30066</p>	Business Phone: (404) 427-1234
EMERGENCY TELEPHONE NO. <p>CMB 1-800-457-4280</p>	

PRODUCT: Steego 7 COMMON NAME: LACQUER THINNER GENERIC NAME: N/A CHEMICAL NAME: N/A CHEMICAL FAMILY: N/A DOT PROPER SHIPPING NAME: COMPOUND, LACQUER THINNING FLAMMABLE LIQUID NA 1263	WARNING STATEMENT: DO NOT induce vomiting if swallowed. For industrial use only.
--	---

Section I - INGREDIENTS

This product contains the following chemicals listed under SARA 313:

Product	CAS Number	Percent by Vol.	TLV* ppm
Toluene	108-88-3	25 to 55	100 - HAP
Acetone	67-64-1	20 to 30	1000
Methanol	67-56-1	10 to 20	200 <i>voc</i>

This product contains the following products not subject to SARA 313 listing

Hexane	110-54-3	20 to 35	50 <i>HAP</i>
--------	----------	----------	---------------

*Threshold Limit Value A. OSHA B. ACGIH C. See Section III D. Other

999

0227555-002 3

WITCO MATERIAL SAFETY DATA SHEET

QUICKSET (RED) SUPER RED

PAGE 1

Product Code: 260 0125

CAS NO: 1338-23-4

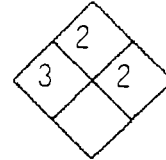
NFPA HAZARD RATING

- 4 - Extreme
- 3 - High
- 2 - Moderate
- 1 - Slight
- 0 - Insignificant

Fire

7/2/97

Health



Reactivity

Special

HMIS HAZARD INDEX

- Hazardous Materials Identification System 4 - Severe
- 3 - Serious
- 2 - Moderate
- 1 - Slight
- 0 - Minimal

HMIS RATINGS

- Health.....
- Flammability.....
- Reactivity.....
- Personal protection.....

DIVISION AND LOCATION---SECTION I

Division: POLYMER ADDITIVES GROUP

Location: MARSHALL, TEXAS

P.O. BOX 1439, HWY 59 & BUSSEY RD, MARSHALL, TX, 75671

Emergency Telephone Number: (903) 938-5141 or Chemtrec (800) 424-9300

Transportation Emergency: CHEMTREC 1-(800) 424-9300 (U.S. and Canada)

CHEMICAL AND PHYSICAL PROPERTIES---SECTION II

Chemical Name:

methyl ethyl ketone peroxide

Formula: not applicable

Hazardous Decomposition Products:

carbon monoxide and carbon dioxide from burning.

Incompatibility (Keep away from):

strong acids, bases, promoters, accelerators, readily oxidizables, and metal salts.

Toxic and Hazardous Ingredients:

methyl ethyl ketone peroxide

34 +/-2

CAS # 1338-23-4 VOL

(9% Active oxygen max.)

dimethylphthalate

56 +/-2

131-11-3 HAP

Form: liquid

Odor: slightly pungent

Appearance: clear

Color: red

Specific Gravity (water=1): 1.125

Boiling Point: no data available, decomposes over 68°C (155°F)

Melting Point: not applicable

Solubility in Water (by weight %): less than 2 at 25°C

Volatile (by weight %): less than 3

Evaporation Rate: not applicable

Vapor Pressure (mm Hg at 20°C): not applicable

Vapor Density (air=1): not applicable

pH (as is): no data available

Stability: Product is stable when stored at recommended temperatures

Viscosity SUS at 100°F: 15-16 centistokes at 25°C (77°F)

(Continued on next page)

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE JMC
 DESCRIPTION: NEW FOREST GREEN
 PRODUCT CODE IDENTITY: 9516F354
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 02
 LAST REVISED : 09-27-96
 DATE OF ISSUE: 05-01-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 719 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY:
 HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD.
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-486-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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

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

SECTION II INGREDIENTS

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

2
 CAS# 068611-44-9
 SILICA, AMORPHOUS-HYDROPHOBIC, FUMED
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FR
 OSHA PEL/TWA: 15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FR
 LD50, Oral: >5000 MG/KG (RAT).
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

3
 UNSATURATED POLYESTER RESIN

COOK COMPOSITES AND POLYMERS CO.
MATERIAL SAFETY DATA SHEET

951GF354

ON TSCA INVENTORY CAS# PROPRIETARY
PCT BY WT: 5 - 10
EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

4 P86-0103

UNSATURATED POLYESTER RESIN CAS# PROPRIETARY
ON TSCA INVENTORY
PCT BY WT: 30 - 40
EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

5

CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 31.9040 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
OSHA PEL/TWA: 50 PPM
OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLO: 5000 PPM/8H (RAT)

6

CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 9.1230 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5H (RAT)

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.00 F
Vapor Pressure: See Section II
Theoretical Weight per Gallon, Calculated: 9.45790 LB/GL
Theoretical Specific Gravity, Calculated: 1.1360
Maximum Theoretical VOC, Calculated: 3.9570 lb/gal
--If applicable, see Section IX for further VOC information--
Physical State: LIQUID
Appearance: GREEN
Odor: MODERATE AROMATIC
Odor Threshold: -N/A
pH: -N/A
Freezing Point: -N/A
Water Solubility: -N/A

MATERIAL SAFETY DATA SHEET

STYRENE MONOMER

MSDS No G000367-1-OSHA-AE
Ver. No 3
Ver. Date JUL 1 97ARCO Chemical Company
3801 West Chester Pike
Newtown Square, PA 19073-3287

IMPORTANT: Read this MSDS before handling and disposing of this product and pass this information on to the employees, customers, and users of this product. This product is covered by the OSHA Hazard Communication Rule and this document has been prepared in accord with the MSDS requirements of this rule.

1. General			
Trade Name	STYRENE MONOMER		Telephone Numbers: EMERGENCY
Other Company Names	This document covers all members of the series of products identified as Styrene Monomer G000367-001 through G000367-050		(800) 424-8300 CHEMTREC (610) 353-8300 ARCO CHEM CUSTOMER SERVICE (800) 321-7000 INFO ONLY
Synonyms	None		
Other Industry Names	Vinylbenzene; Phenylethylene; Cinnamene; Ethenylbenzene		
Chemical Family	Aromatic hydrocarbons		
Generic Name	Styrene		
DOT Hazardous Material Proper Shipping Name Styrene monomer, inhibited			
DOT Hazard Class 3 (Flammable liquid)	DOT Packing Group III	DOT Reportable Quantity (Based on Material) 1,000 lbs.	UNNA ID No. UN 2055
CAS No. (See Section 9 - Components)	Company Material ID	MSDS Class	
	BE845	G	
2. Summary of Hazards			
Signal Word:	DANGER		
Physical Hazards:	Highly flammable liquid Reactive (unstable) when uninhibited		
Acute Health Effects (Short-Term)	Mucous membrane irritant; Moderate eye irritant; Slight ingestion hazard; Moderate skin irritant; No skin absorption hazard identified from data available		
Chronic Health Effects (Long-Term)	Repeated or prolonged exposure to styrene may cause nausea, loss of appetite, CNS depression, and general weakness (See additional Toxicology information elsewhere in this document)		
3. Fire and Explosion			
Flash Point AP 90°F (TCC)	Autoignition Temperature AP 914°F	Flammable Limits (at Normal Atmospheric Temp and Pressure) Lower: AP 1.1 (% vol in air) Upper: AP 6.1 (% vol in air)	
Fire and Explosion Hazards	Heat/inhibitor depletion/accidental impurities/exposure to air/radiation may cause spontaneous reaction/generate heat/pressure/rupture container. Liquid normally inhibited but not vapors. Vapors may condense as solids, plugging pressure relief devices, causing overpressure/rupture of storage containers during runaway polymerization.		
Extinguishing Media	CO ₂ Dry chemical Foam		
Extinguishing Media Use Comment	Use waterspray/waterfog for cooling		
Special Firefighting Procedures	Do not enter fire area without proper protection. Fight fire from a safe distance/protected location. Heat/impurities may increase temperature/build pressure/rupture closed containers, spreading fire, increasing risk of burns/injuries. Water may be ineffective in firefighting due to low solubility. Use water spray/fog for cooling. Pressure relief system may plug with solids, increasing risk of overpressure. Notify authorities immediately if liquid enters sewer/public waters.		

M A T E R I A L S A F E T Y D A T A S H E E T
COATINGS, RESINS, AND RELATED MATERIALS

MANUFACTURED BY:

McWhorter Technologies, Inc. EMERGENCY CONTACT: CHEMTREC 1-800-424-9300
400 East Cottage Place
Carpentersville, IL. 60110

INFORMATION CONTACT: 1-888-CALL-MWT (DURING NORMAL BUSINESS HOURS)

DATE OF PREP: 5/04/98 SUPERSEDES DATE: 12/01/97 DATE OF PRINT: 2/15/99

SECTION I. PRODUCT IDENTIFICATION

PRODUCT CODE: (INTERNAL REF.#162)
784 7975

PRODUCT NAME:

VINYL ESTER RESIN

SHIPPING DESCRIPTION:

RESIN SOLUTION,

3, UN 1866, PG III
MARINE POLLUTANT, CONTAINS:

STYRENE

1,2,4-TRIMETHYLBENZENE

SECTION II. HAZARDOUS INGREDIENTS

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM

HEALTH: 2 * FLAMMABILITY: 3

REACTIVITY: 1

INGREDIENT	WT.	TLV	SOURCE	IDLH	VAPOR	LEL	
CAS NO.	PERCENT	ppm	mg/m3	ppm	PRESSURE		
					(mm Hg @68F)		
STYRENE	45.9	50.0000	215.00	TWA/ACGIH	700	4.30	1.10
		100.0000	425.00	FEDERAL PEL			
		100.0000	425.00	STEL/ACGIH			

SECTION III. PHYSICAL DATA

BOILING RANGE: 148-415 F PERCENT VOLATILE BY VOL: 52.90
SPECIFIC GRAVITY 1.044 EVAPORATION RATE (n-Bu Ac=1): 0.43
VAPOR DENSITY (AIR=1): 3.135 VAPOR PRESSURE (mm Hg@68F): 3.74
VOLATILE ORGANIC CONTENT (VOC): N/A
APPEARANCE AND ODOR: amber solution - mild odor
SOLUBILITY IN WATER: negligible

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 86 DEG. F SETAFLASH OSHA CLASSIFICATION: IC
FLAMMABLE LIMITS % BY VOLUME IN AIR AT 212 DEG. F:
LOWER EXPLOSION LIMIT: 1.10
UPPER EXPLOSION LIMIT: 7.00

EXTINGUISHING MEDIA:

Use foam, carbon dioxide or chemical fire fighting

Best Available Copy

MATERIAL SAFETY DATA SHEET

Interplastic Corporation
1225 Willow Lake Blvd
Vadnais Heights, MN 55110-5145

24-Hour Emergency Telephone (800) 424-9300

ATTN: PLANT MGR/SAFETY DIR

Revision Date: 04/30/96
Issue Date: 12/08/97
MSDS File id: MSDSLETO
Customer No:
Whse No: C01

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - Product Identification

Product Name: ~~UN1866~~ CORROSIVE-20-0665; CORROSION, ISO RESIN
UN/NA Number: UN1866; HMIS Rating (H=2, F=3, R=1)
General or Generic ID: Unsaturated Polyester Resin
Hazard Classification: Flammable Liquid

SUMMER RESIN
HIGH HEAT
ITEM # 22391

SECTION II - Hazardous Components

Ingredient	Cas No.	Percent	OSHA-PEL	ACGIH-TLV NOTE
Unsaturated Polyester Base Resin	See Index	52.5	None-Estb.	None-Est.
Styrene	100-42-5	47.5	50 ppm TWA	20 ppm (1)

(1) OSHA has formally endorsed a styrene industry proposal for a voluntary 50 ppm PEL for workplace exposure to styrene. This proposal was agreed upon by representative of the UPR industry. The OSHA STEL is 100 ppm.

The ACGIH recently changed the TLV for styrene from 50 ppm to 20 ppm and the STEL from 100 ppm to 40 ppm.

SECTION III - Physical Data

Property		Measurement
Initial Boiling Point	For Styrene	293.40 DEG F @ 760.00 MMHG
Vapor Pressure	For Styrene	4.3 MMHG (20.00 DEG C)
Vapor Density	Air = 1	3.6
Specific Gravity		1.01-1.30 @ 77.00 DEG F (25.00 DEG C)
Percent Non-volatiles		52.5%
Evaporation Rate		Slower than Ether

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 001

Date Prepared: 01/26/98

Date Printed: 05/14/98

MSDS No: 304.0302354-003.008

ODD LOT ARIS LB 645-22 S OL

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: ODD LOT ARIS LB 645-22 S OL

General or Generic ID: UNSATURATED POLYESTER RESIN

Company

Ashland Chemical Co.
P.O. Box 2219
Columbus, OH 43215
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)
24 hours everyday

Regulatory Information Number:

1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
STYRENE	100-42-5	60.0
POLYESTER RESIN	Trade Secret	34.0- 39.0
METHYL METHACRYLATE	80-62-6	1.0
VINYL TOLUENE	25013-15-4	1.0- 3.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Can cause eye irritation. Symptoms include stinging, tearing, redness, and swelling of eyes.

Skin

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

Continued on next page

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR
 DESCRIPTION: L/F ORANGE TOOLING
 PRODUCT CODE IDENTITY: 945YA058
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 03
 LAST REVISED : 05-06-96
 DATE OF ISSUE: 01-23-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY:
 HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

TRANSPORTATION EMERGENCY TELEPHONE (CHEM/REC): 1-800-424-9300

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

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

SECTION II INGREDIENTS

- 1
 CAS# 112926-00-8
 SILICA, AMORPHOUS-SILICA GEL
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)
 OSHA PEL/TWA: 6 MG/CU.M.
 LD50, Oral: NOT AVAILABLE
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE
- 2
 UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY AND CEPA DOMESTIC SUBSTANCES LIST CAS# PROPRIETARY
 PCT BY WT: 20 - 30
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED
- 3
 UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY AND CEPA DOMESTIC SUBSTANCES LIST CAS# PROPRIETARY
 PCT BY WT: 1 - 5

 COOK COMPOSITES AND POLYMERS CO.
 MATERIAL SAFETY DATA SHEET

945YA058

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

4

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY CAS# PROPRIETARY
 PCT BY WT: 20 - 30
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

5

CAS# 000100-42-5
 STYRENE MONOMER
 PCT BY WT: 42.3080 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 50 PPM
 OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLO: 5000 PPM/8H (RAT)

6

CAS# 000080-62-6
 METHYL METHACRYLATE
 PCT BY WT: 4.7370 VAPOR PRESSURE: 29.000 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
 LD50, Oral: 7.9 G/KG (RAT)
 LD50, Dermal: 35.5 G/KG (RABBIT)
 LC50, Inhalation: >12,500 PPM/0.5H (RAT)

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.00 F
 Vapor Pressure: See Section II
 Theoretical Weight per Gallon, Calculated: 9.05860 LB/GL
 Theoretical Specific Gravity, Calculated: 1.0880
 Maximum Theoretical VOC, Calculated: 4.3140 lb/gal
 --If applicable, see Section IX for further VOC information--
 Physical State: LIQUID
 Appearance: ORANGE
 Odor: MODERATE AROMATIC
 Odor Threshold: -N/A
 pH: -N/A
 Freezing Point: -N/A
 Water Solubility: -N/A
 Coefficient of Water/Oil Distribution: -N/A

FINISH KARE #3

MATERIAL SAFETY DATA SHEET
FINISH KARE PRODUCTS, INC.
SOUTH EL MONTE, CALIFORNIA
(818) 443-8983

HAZARD RATINGS

MINIMAL.....0
SLIGHT.....1
MODERATE.....2
SERIOUS.....3
SEVERE.....4

HEALTH	1
FLAMMABILITY	2
REACTIVITY	0

SECTION I PRODUCT IDENTIFICATION

TRADE NAME:

PART NO:

Hi Low Liquid Wax.....1000L
Traffic Wax.....PB-1
Liquid Release & Stripper.....69
Hi Low Liquid Wax Special.....1000L-28
Seal Kote.....86

CHEMICAL NAME: Aromatic Hydrocarbon

SECTION II HAZARDOUS INGREDIENTS

OCCUPATIONAL EXPOSURE LIMITS

	CAS NO.	%	PEL/OSHA	TLV/ACGIH	VOC
Solvent Naphtha (Petroleum)	64742-95-6	10-15%	400ppm	400	
Stoddard Solvent	8052-41-3		200	200	
Wax Blend: Hydrocarbon Wax Mixture N/A					
Synthetic Hydrocarbon	N/A				
Hydrocarbon	N/A				
Polyethylene Homopolymer	9002-88-3				

SECTION III HEALTH HAZARD INFORMATION

THE HEALTH EFFECT NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29CFR 1910.1200)

EYE CONTACT: Product is minimally irritating to the eyes. High vapor concentrations may also be irritating.

SKIN CONTACT: Liquid is minimally irritating to the skin. Prolonged or repeated contact may result in defatting and drying of the skin.

84309

MATERIAL SAFETY DATA SHEET

FOR GELCOATS, RESINS, AND RELATED MATERIALS

Prepared by- BK
Date of Preparation- 01-21-98
Manufacturer: NESTE POLYESTER
Address : 5106 Wheeler Ave.
Fort Smith, AR 72901

For: GLS CORPORATION
9001 NW 105TH WAY
MEDLEY FL 33178

Telephone No.: (501) 646-7865 CHEMTREC (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: GG-30907 Revision 10
Product Class:
Trade Name: FOREST GREEN GEL COAT
HMIS Information: Health- 2 Flammability- 3
Reactivity- 1 Personal Protective Equipment- I

Safety Glasses, Gloves, & Combination Dust and Vapor Respirator

SECTION II HAZARDOUS INGREDIENTS

MATERIAL %
02 STYRENE CAS# 100-42-5
% BY WT: 37.01

EXPOSURE LIMIT:
ACGIH TLV/TWA 50 PPM
OSHA PEL 50 PPM
TLV-STEL 100 PPM

OTHER LIMITS:
IARC 2B

14 METHYL METHACRYLATE CAS# 80-62-6
% BY WT: < 5

EXPOSURE LIMIT:
ACGIH TLV/TWA 100 PPM
TLV-STEL NONE

25 CHROMIC OXIDE CAS# 1308-38-9
% BY WT: 1.30

EXPOSURE LIMIT:
ACGIH TLV/TWA 500 MICRO G/M3
OSHA PEL 500 MICRO G/M3

NESTE POLYESTER

GG-30907

MATERIAL SAFETY DATA SHEET

Page 2

FOREST GREEN GEL COAT

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION III PHYSICAL DATA

Boiling Range: High- 295.0 F Low- 214.0 F

Vapor Pressure: 29.00 MMHG @68 F

Vapor Density: Heavier Than Air

Evaporation Rate: Slower than Ether

Weight per Gallon: 10.03

VOC: .019

Physical State: LIQUID

Appearance: GREEN

Odor: AROMATIC

Water Solubility: INSOLUBLE

UN Number: 1866 RESIN SOLUTION, FLAMMABLE

SECTION IV FIRE AND EXPLOSION HAZARD DATA

OSHA Flammability Classification: Class 1C DOT: Flammable Liquid

Actual Flashpoint TCC: 89.0 F

Explosion Level: Lower- 1.1 Upper- 12.5

A water stream can scatter flames. A spray of water may be used to cool fire-exposed containers.

EXTINGUISHING MEDIA

Use Foam, CO2, Dry Chemical, Water Fog

Fire fighters should use self-contained breathing apparatus with full facepiece.

UNUSUAL FIRE AND EXPLOSION HAZARD:

Keep containers tightly closed. Isolate from heat, electrical equipment, sparks, and open flame. Vapors may be heavier than air and may travel along the ground before ignition/flashing back to vapor source. Keep welding or cutting equipment away from product.

SECTION V HEALTH HAZARD DATA

EFFECTS OF EXCESSIVE OVEREXPOSURE

Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Do not breathe vapors or spray mist. Wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application unless air monitoring demonstrates vapor/mist levels are below applicable limits. Follow respirator manufacturer's directions for respirator use.

Vapors of this product may cause irritation of the eyes, nose, throat,

natural rubber, neoprene, buna N or nitrile. An apron should be worn to avoid skin contact.

RESPIRATORY PROTECTION

In outdoor or open areas use (NIOSH/MSHA approved) mechanical filter respirator to remove solid airborne particles of overspray during spray application. In restricted ventilation areas use (NIOSH/MSHA approved) chemical-mechanical filters designed to remove a combination of particulate and gas and vapor. In confined areas use (NIOSH/MSHA approved) air line type respirators or hoods. Respiratory protection may also be necessary in any later manufacturing operations in which the product may become airborne in the form of vapor or dust.

WHMIS CLASSIFICATION B2/D1A/F

SECTION IX SPECIAL PRECAUTIONS

HANDLING AND STORAGE: Use in accordance with good industrial workplace practices; avoid unnecessary contact; wash thoroughly after handling; store in a dry area away from excessive heat.

OTHER PRECAUTIONS: For industrial use only.

Personnel should avoid inhalation of vapors. Personal contact with the product should be avoided. Should contact be made, remove saturated clothing and flush affected skin areas with water. Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in this sheet must be observed.

NOTICE - Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

SECTION IX (B) DOT INFORMATION

Flammable Liquid 3 Packing Group III

SECTION X Section 313 Toxic Chemicals

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

Chemical	CAS Number	Weight %
STYRENE	100-42-5	37.01
100.00 STYRENE MONOMER		
METHYL METHACRYLATE	80-62-6	< 5
CHROMIC OXIDE	1308-38-9	1.30

THE INFORMATION CONTAINED HEREIN IS INFORMATION RECEIVED FROM OUR RAW MATERIAL SUPPLIERS AND OTHER SOURCES AND

NESTE POLYESTER

GG-30907

MATERIAL SAFETY DATA SHEET

Page

5

FOREST GREEN GEL COAT

IS BELIEVED TO BE RELIABLE. THIS DATA IS NOT TO BE TAKEN
AS A WARRANTY OR REPRESENTATION FOR WHICH NESTE POLYESTER
ASSUMES LEGAL RESPONSIBILITY

BEST AVAILABLE COPY
MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ~~ARMORITE~~
DESCRIPTION: ~~BLEND~~
PRODUCT CODE: ~~IDENTITY~~: 951BA104
NPCA HMIS RATING: H 2* F 3 R 2

REVISION: 01
LAST REVISED: 08/19/1997
DATE OF ISSUE: 05/27/9999

COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 320 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116

PREPARED BY:
HAZARD COMMUNICATION DEPT.

CUSTOMER: ACTION CRAFT
2603 ANDALUSIA BLVD
CAPE CORAL FL 33909

INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

ATTENTION:

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

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

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

SECTION II INGREDIENTS

1
CAS# 001333-86-4
CARBON BLACK
PCT BY WT: .8400
EXPOSURE LIMIT:
ACGIH TLV/TWA: 3.5 MG/CU.M.
OSHA PEL/TWA: 3.5 MG/CU.M.
LD50, Oral: NOT AVAILABLE
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE

2
CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 9.4000 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5H (RAT)

3
CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 32.9410 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 20 PPM (85 MG/CU.M.)
ACGIH TLV/STEL: 40 PPM (170 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (8 HR TWA)
OSHA PEL/CEILING: ACCEPTABLE MAX. PEAK: 600 PPM (5 MIN IN ANY 3 HRS)
OSHA PEL/STEL: ACCEPTABLE CONCENTRATION: 200 PPM (15 MIN TWA)

COOK COMPOSITES AND POLYMERS CO.
MATERIAL SAFETY DATA SHEET

* 951BA104 *

LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLO: 5000 PPM/8H (RAT)

4

CAS# 014807-96-6
TALC (HYDROUS MAGNESIUM SILICATE)

PCT BY WT: 5 - 10

EXPOSURE LIMIT:

ACGIH TLV/TWA: 2 MG/CU.M., RESPIRABLE DUST
OSHA PEL/TWA: 2 MG/CU.M., RESPIRABLE DUST
LD50, Oral: NOT AVAILABLE
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE

5

CAS# 068611-44-9
SILICA, AMORPHOUS-HYDROPHOBIC, FUMED

PCT BY WT: 1 - 5

EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FRACTN)
OSHA PEL/TWA: 15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FRACTN)
LD50, Oral: >5000 MG/KG (RAT)
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE

6

UNSATURATED POLYESTER RESIN
ON TSCA INVENTORY

CAS# PROPRIETARY

PCT BY WT: 1 - 5

EXPOSURE LIMIT:

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

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UNSATURATED POLYESTER RESIN
ON TSCA INVENTORY

CAS# PROPRIETARY

PCT BY WT: 30 - 40

EXPOSURE LIMIT:

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

This product contains one or more reported carcinogens or suspected
carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits
recommended column.

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.0 F

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 9.3763 LB/GL

Theoretical Specific Gravity, Calculated: 1.126

Maximum Theoretical VOC, Calculated: 4.001 LB/GL

--If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: BLACK

Odor: MODERATE AROMATIC

Odor Threshold: -N/A

pH: -N/A

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE IMC
 DESCRIPTION: CRIMSON RED
 PRODUCT CODE IDENTITY: 951RF256
 NPCA HMIS RATINGS: H 2* F 3 R 2
 REVISION: 03
 LAST REVISED : 07-29-96
 DATE OF ISSUE: 02-06-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY:
 HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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

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

SECTION II INGREDIENTS

1
 CAS# 001333-86-4
 CARBON BLACK
 PCT BY WT: .0340
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 3.5 MG/CU.M.
 OSHA PEL/TWA: 3.5 MG/CU.M.
 LD50, Oral: NOT AVAILABLE
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

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

3
 CAS# 068611-44-9
 SILICA, AMORPHOUS-HYDROPHOBIC, FUMED

 COOK COMPOSITES AND POLYMERS CO.
 MATERIAL SAFETY DATA SHEET

951RF256

PCT BY WT: 1 - 5
 EXPOSURE LIMIT:

ACGIH TLV/TWA:	10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FR
OSHA PEL/TWA:	15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FR
LD50, Oral:	>5000 MG/KG (RAT)
LD50, Dermal:	NOT AVAILABLE
LC50, Inhalation:	NOT AVAILABLE

4

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY

CAS# PROPRIETARY

PCT BY WT: 5 - 10
 EXPOSURE LIMIT:

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

5 P86-0103

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY

CAS# PROPRIETARY

PCT BY WT: 30 - 40
 EXPOSURE LIMIT:

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

6

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 31.3210 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

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

7

CAS# 000080-62-6

METHYL METHACRYLATE

PCT BY WT: 8.9220 VAPOR PRESSURE: 29.000 MMHG @ 68F

EXPOSURE LIMIT:

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

SECTION III PHYSICAL DATA

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

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 9.43320 LB/GAL

Theoretical Specific Gravity, Calculated: 1.1330

Maximum Theoretical VOC, Calculated: 3.8820 lb/gal

--If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: RED

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE IMC
 DESCRIPTION: VIVID BLUE
 PRODUCT CODE IDENTITY: 951LF292
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 04
 LAST REVISED: 07-28-97
 DATE OF ISSUE: 02-28-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY: HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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

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

SECTION II INGREDIENTS

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

2
 CAS# 068611-44-9
 SILICA, AMORPHOUS-HYDROPHOBIC, FUMED
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FR
 OSHA PEL/TWA: 15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FR
 LD50, Oral: >5000 MG/KG (RAT)
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

3
 UNSATURATED POLYESTER RESIN

 COOK COMPOSITES AND POLYMERS CO.
 MATERIAL SAFETY DATA SHEET

951LF292

 ON TSCA INVENTORY CAS# PROPRIETARY
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

4 P86-0103

UNSATURATED POLYESTER RESIN CAS# PROPRIETARY
 ON TSCA INVENTORY
 PCT BY WT: 30 - 40
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

5

CAS# 000100-42-5
 STYRENE MONOMER
 PCT BY WT: 32.7990 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 50 PPM
 OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLO: 5000 PPM/8H (RAT)

6

CAS# 000080-62-6
 METHYL METHACRYLATE
 PCT BY WT: 9.3960 VAPOR PRESSURE: 29.000 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
 LD50, Oral: 7.9 G/KG (RAT)
 LD50, Dermal: 35.5 G/KG (RABBIT)
 LC50, Inhalation: >12,500 PPM/0.5H (RAT)

 SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.00 F
 Vapor Pressure: See Section II
 Theoretical Weight per Gallon, Calculated: 9.42750 LB/GL
 Theoretical Specific Gravity, Calculated: 1.1330
 Maximum Theoretical VOC, Calculated: 4.0430 lb/gal
 --If applicable, see Section IX for further VOC information--
 Physical State: LIQUID
 Appearance: BLUE
 Odor: MODERATE AROMATIC
 Odor Threshold: -N/A
 pH: -N/A
 Freezing Point: -N/A
 Water Solubility: -N/A

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT ID : UG-3622
TRADE NAME : CAMEO WHITE GELCOAT
FORMULA ID : UG-3622
FORMULA VERSION NUMBER : 4
MSDS PREPARATION DATE : 01-21-99

MANUFACTURER IDENTIFICATION:

NAME : NESTE POLYESTER, INC
ADDRESS : 5106 WHEELER AVE

FORT SMITH AR 72901

TELEPHONE : 501/646-7865
EMERGENCY CONTACT : Richard Honebrink
EMERGENCY TELEPHONE : CHEMTREC 800-424-9300

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

1

CAS# 80626
METHYL METHACRYLATE
PCT BY WT: 3.0 TO 4.0 LEL 2.10
EXPOSURE LIMIT:
OSHA PEL/TWA: 100 ppm (410mg/M3) 8 hour TWA
OSHA STEL: None
ACGIH TLV/TWA: None
IARC: n/a

2 STYRENE

CAS# 100425
PCT BY WT: 31.2990 LEL 1.10
EXPOSURE LIMIT:
OSHA PEL/TWA: 50 ppm (215mg/M3) 8-hour TWA
OSHA STEL: 100 ppm (425mg/M3)
ACGIH TLV/TWA: 20 ppm (86mg/M3)
IARC: 2B ("possible")

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

This substance is classified as a hazardous air pollutant.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT ID : LP-6303
TRADE NAME : GREEN-SHADE BLUE PIGMENT
FORMULA ID : LP-6303
FORMULA VERSION NUMBER :
MSDS PREPARATION DATE : 07-08-98
MANUFACTURER IDENTIFICATION:
NAME : NESTE POLYESTER, INC
ADDRESS : 5106 WHEELER AVE

FORT SMITH AR 72901

TELEPHONE : 501/646-7865
EMERGENCY CONTACT : Richard Honebrink
EMERGENCY TELEPHONE : CHEMTREC 800-424-9300

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

This product contains no reported carcinogens or suspected carcinogens.

This product contains no reportable hazardous ingredients. This Material Safety Data Sheet contains information on good industrial practice for safe handling of all industrial chemicals.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EYE:

Exposure can cause eye irritation. Symptoms may include stinging, tearing, redness, and swelling.

SKIN:

May cause mild skin irritation. Symptoms may include redness and burning.

INHALATION:

Exposure is possible under certain conditions of handling and use (for example, during heating, spraying, or stirring). Harmful effects are not expected from short-term inhalation.

INGESTION:

Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

CHRONIC EFFECTS:

Gastrointestinal irritation (nausea, vomiting, diarrhea).

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL PRODUCT IDENTIFICATION:

PRODUCT ID : WP-6000
TRADE NAME : WHITE PIGMENT CONCENTRATE
FORMULA ID : WP-6000
FORMULA VERSION NUMBER :
MSDS PREPARATION DATE : 07-08-98
MANUFACTURER IDENTIFICATION:
NAME : NESTE POLYESTER, INC
ADDRESS : 5106 WHEELER AVE

FORT SMITH AR 72901

TELEPHONE : 501/646-7865
EMERGENCY CONTACT : Richard Honebrink
EMERGENCY TELEPHONE : CHEMTREC 800-424-9300

SECTION 2 - COMPOSITION, INFORMATION ON INGREDIENTS

This product contains no reported carcinogens or suspected carcinogens.

This product contains no reportable hazardous ingredients. This Material Safety Data Sheet contains information on good industrial practice for safe handling of all industrial chemicals.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

SECTION 3 - HAZARDS IDENTIFICATION

POTENTIAL HEALTH EFFECTS:

EYE:

Exposure can cause eye irritation. Symptoms may include stinging, tearing, redness, and swelling.

SKIN:

May cause mild skin irritation. Symptoms may include redness and burning.

INHALATION:

Exposure is possible under certain conditions of handling and use (for example, during heating, spraying, or stirring). Harmful effects are not expected from short-term inhalation.

INGESTION:

Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

CHRONIC EFFECTS:

Gastrointestinal irritation (nausea, vomiting, diarrhea).

LILLY

MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

Date of Preparation- 05-14-98
Prepared by- R. Smothers
Manufacturer: LILLY INDUSTRIES, INC.
Address : 2355 Southwest 66th Terrace
Davie, Florida 33317

Telephone#: (305) 475-0150 Night: (305) 475-0150
Emergency#: (305) 475-0150 Night: (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: 5776E90113
Product Class: POLYESTER GELCOAT
Trade Name: PEARL GRAY

HMS Information: Health- 2 Flammability- 3
Reactivity- 2 Personal Protective Equipment- X
HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least
*= Chronic health hazard

Ask your supervisor for specific handling directions (See Section VIII).

SECTION II HAZARDOUS INGREDIENTS

METHYL METHACRYLATE

01 CAS# 80-62-6
BY WT: 4.000 VAPOR PRESSURE: 29.00 MMHG @ 20C

EXPOSURE LIMIT
ACGIH TLV (TWA) 100.00 PPM
OSHA PEL (TWA) 100.00 PPM

STYRENE MONOMER

02 CAS# 100-42-5
BY WT: 31.983 VAPOR PRESSURE: 9.50 MMHG @ 20C

EXPOSURE LIMIT
ACGIH TLV (TWA) 50.00 PPM
OSHA PEL (TWA) 100.00 PPM
ACGIH STEL 100.00 PPM
Skin notation YES
Carcinogen 2B, IARC

MATERIAL SAFETY DATA SHEET

Interplastic Corporation
1225 Wolters Boulevard
Vadnais Heights, MN 55110-5145

24-Hour Emergency Telephone (800) 424-9300

ATTN: PLANT MGR/SAFETY DIR
GLS CORPORATION
3715 NORTH FRONTAGE RD
LAKELAND FL 33809

Revision Date: 11/17/94
Issue Date: 11/06/96
MSDS File id: MSDSLET3
Customer No: 3924016220
Whse No: 0003

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - Product Identification

Product Name: W-633-NMA PEARL GRAY NPG GEL COAT
UN/NA Number: UN1866
General or Generic ID: Unsaturated Polyester Resin
Hazard Classification: Flammable Liquid

SECTION II - Hazardous Components

Ingredient	Cas No.	Percent	OSHA-PEL	ACGIH-TLV NOTE
Styrene	100-42-5	35-39	50 ppm TWA	50 ppm (1)

(1) OSHA ceiling value is 100 ppm and ACGIH short term exposure limit (STEL) is 100 ppm. NIOSH recommends a limit of 50 ppm, 8-hour TWA; 100 ppm 15 minute ceiling.

SECTION III - Physical Data

Property	Measurement
Initial Boiling Point	293.40 DEG F @ 760.00 MMHG
Vapor Pressure	4.3 MMHG (20.00 DEG C)
Vapor Density	Air = 1 3.6
Specific Gravity	1.25 - 1.29 @ 77.00 DEG F (25.00 DEG C)
Percent Non-volatiles	%
Evaporation Rate	Slower than Ether



Material Safety Data Sheet

MSDS No. 0359V1

WHMIS (Pictograms) 	NFPA (USA) <div style="display: flex; align-items: center;"> <div style="margin-right: 10px;">Health</div> <div style="margin-left: 10px;"> <p>Fire Hazard 3</p> <p>Reactivity 2</p> <p>Specific Hazard 2</p> </div> </div>	HMS (USA) <table border="1" style="width: 100%;"> <tr><td>Health Hazard</td><td style="text-align: center;">2</td></tr> <tr><td>Fire Hazard</td><td style="text-align: center;">3</td></tr> <tr><td>Reactivity</td><td style="text-align: center;">2</td></tr> <tr><td>Personal Protection</td><td style="text-align: center;">X</td></tr> </table>	Health Hazard	2	Fire Hazard	3	Reactivity	2	Personal Protection	X	Protective Clothing
Health Hazard	2										
Fire Hazard	3										
Reactivity	2										
Personal Protection	X										

Section I. Chemical Product and Company Identification

Product Name/Trade Name Polyester Resin Solution in Styrene (MSDS Code: Type E) 8-3P		CI# Not applicable.
Supplier Alpha/Owens Corning 950 Highway 57 East Collierville, Tennessee U.S.A. 38017 Phone Number: (901) 854-2800		CAS# Not applicable.
Synonym Not available.		DSL On the DSL list.
Chemical Name Not applicable.		TSCA On the TSCA list.
Chemical Family (Aromatic.)		In case of Emergency CANUTEC (Canada 24 hours Everyday) (613) 996-6666 CHEMTREC (US 24 hours Everyday) (800) 424-9300 Manufacturer (8am to 5pm weekdays) (901) 854-2800
Chemical Formula Not applicable.		
Manufacturer Alpha/Owens Corning 950 Hwy. 57 East Collierville, Tennessee U.S.A. 38017 Phone Number: (901) 854-2800	Material Uses Industrial applications: Used in the manufacture of fibre reinforced plastic parts.	


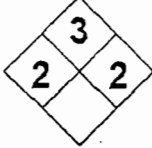

Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight	Exposure Limits					
			ACGIH TLV TWA (mg/m3)	ACGIH TLV STEL (mg/m3)	ACGIH TLV CEIL (mg/m3)	OSHA PEL TWA (mg/m3)	OSHA PEL STEL (mg/m3)	OSHA PEL CEIL (mg/m3)
Styrene	100-42-5	49	213	426		215	425	



Material Safety Data Sheet

MSDS No. 0428V1

WHMIS (Pictograms) 	NFPA (USA)  Health: 2 Fire Hazard: 3 Reactivity: 2 Specific Hazard: 0	HMIS (USA) <table border="1"> <tr><td>Health Hazard</td><td>2</td></tr> <tr><td>Fire Hazard</td><td>3</td></tr> <tr><td>Reactivity</td><td>2</td></tr> <tr><td>Personal Protection</td><td>(X)</td></tr> </table>	Health Hazard	2	Fire Hazard	3	Reactivity	2	Personal Protection	(X)	Protective Clothing 
Health Hazard	2										
Fire Hazard	3										
Reactivity	2										
Personal Protection	(X)										

Section I. Chemical Product and Company Identification

Product Name/Trade Name Polyester Resin Solution in Styrene (MSDS Code: Type EE1) 80-068	CI# Not applicable.
Customer Product Name	CAS# Mixture
Supplier Alpha/Owens Corning 950 Highway 57 East Collierville, Tennessee U.S.A. 38017 Phone Number: (901) 854-2800	DSL On the DSL list.
Synonym Not available.	TSCA On the TSCA list.
Chemical Name Not applicable.	In case of Emergency CANUTEC (Canada 24 hours Everyday) (613) 996-6666 CHEMTREC (US 24 hours Everyday) (800) 424-9300 Manufacturer (8am to 5pm weekdays) (901) 854-2800
Chemical Family (Aromatic.)	
Chemical Formula Not applicable.	
Manufacturer Alpha/Owens Corning 950 Hwy. 57 East Collierville, Tennessee U.S.A. 38017 Phone Number: (901) 854-2800	

Section II. Composition and Information on Ingredients

Name	CAS #	% by Weight
Amorphous fumed silica	112945-52-5	1-5
Styrene	100-42-5	35-40
		37%

Section III. Hazards Identification

Potential Acute Health Effects	Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. May cause skin sensitization. May cause eye irritation.
Potential Chronic Health Effects	CARCINOGENIC EFFECTS: Classified 2B (Possible for human.) by IARC [Styrene]. An increased incidence of lung tumors was observed in mice from a recent inhalation study. The relevance of this finding is uncertain since data from other long-term animal studies and from epidemiology studies of workers exposed to styrene do not provide a basis to conclude that styrene is carcinogenic. Lung effects have been observed in the mouse following repeated exposure. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available.

MATERIAL SAFETY DATA SHEET

Resin

Interplastic Corporation
1225 Willow Lake Blvd
Vadnais Heights, MN 55110-5145

24-Hour Emergency Telephone (800) 424-9300

ATTN: PLANT MGR/SAFETY DIR
ACTION CRAFT MARINE
2603 ANDALUTIA BLVD
CAPE CORAL FL 33909

Revision Date: 04/30/96
Issue Date: 05/01/97
MSDS File id: MSDSLET0
Customer No: 2939255000
Whse No: 0002

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - Product Identification

Product Name: COR61-AA-659 DCPD LAMINATING RESIN
UN/NA Number: UN1866 HMIS Rating (H=2, F=3, R=1)
General or Generic ID: Unsaturated Polyester Resin
Hazard Classification: Flammable Liquid

SECTION II - Hazardous Components

Ingredient	Cas No.	Percent	OSHA-PEL	ACGIH-TLV NOTE
Unsaturated Polyester Base Resin	See Index	62.5	None-Estb.	None-Est.
Styrene	100-42-5	37.5	50 ppm TWA	50 ppm (1)

(1) OSHA ceiling value is 100 ppm and ACGIH short term exposure limit (STEL) is 100 ppm. NIOSH recommends a limit of 50 ppm, 8-hour TWA; 100 ppm 15 minute ceiling.

SECTION III - Physical Data

Property	Measurement
Initial Boiling Point For Styrene	293.40 DEG F @ 760.00 MMHG
Vapor Pressure For Styrene	4.3 MMHG (20.00 DEG C)
Vapor Density Air = 1	3.6
Specific Gravity	1.110 - 1.130 @ 77.00 DEG F (25.00 DEG C)
Percent Non-volatiles	62.5%
Evaporation Rate	Slower than Ether

MATERIAL SAFETY DATA SHEET

Interplastic Corporation
 1225 Willow Lake Blvd
 Vadnais Heights, MN 55110-5145

24-Hour Emergency Telephone (800) 424-9300

ATTN: PLANT MGR/SAFETY DIR

Revision Date: 04/30/96
 Issue Date: 01/18/99
 MSDS File Id: MSDSLE20
 Customer No:
 Whse No: 00

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

 SECTION I - Product Identification

Product Name: **MVR803IM**
 UN/NA Number: **UN1866** HMIS Rating (H=2, F=3, R=1)
 General or Generic ID: **Unsaturated Polyester Resin**
 Hazard Classification: **Flammable Liquid**

 SECTION II - Hazardous Components

Ingredient	Cas No.	Percent	OSHA-PPEL	ACGIH TLV NDFE
Unsaturated Polyester Base Resin	See Index	55.0	None Estb.	None Est.
Styrene	100-42-5	45.0	50 ppm TWA	50 ppm (1)

(1) OSHA ceiling value is 100 ppm and ACGIH short term exposure limit (STEL) is 100 ppm. NIOSH recommends a limit of 50 ppm, 8-hour TWA; 100 ppm 15 minute ceiling.

 SECTION III - Physical Data

Property	Measurement
Initial Boiling Point	For Styrene 193.43 DEG F (76.00 MMHG)
Vapor Pressure	For Styrene 4.3 MMHG 20.00 DEG C
Vapor Density	Air = 1 .6
Specific Gravity	.01 L/L (77.00 DEG F) (25.00 DEG C)
Percent Non-volatiles	55.0%
Evaporation Rate	Slower than Ethanol

MATERIAL SAFETY DATA SHEET

Interplastic Corporation
 1225 Willow Lake Blvd
 Wadswaig Heights, MN 55110-5145

24-Hour Emergency Telephone (800) 424-9300

ATTN: PLANT MGR/SAFETY DIR

Revision Date: 04/30/96
 Issue Date: 04/22/97
 MSDS File id: MSDSLETC
 Customer No:
 Whse No: 002

This MSDS complies with 29 CFR 1910.1200 (The Hazard Communication Standard)

SECTION I - Product Identification

Product Name: MVR8031 VINYL ESTER RESIN
 UN/DA Number: UN1844 HWS Rating (H-2, F-3, R-1)
 General or Generic ID: Unsaturated Polyester Resin
 Hazard Classification: Flammable Liquid

SECTION II - Hazardous Components

Ingredient	Cas No.	Percent	OSHA-PEL	ACGIH-TLV	NOTE
Unsaturated Polyester Base Resin	See Index	55.1	None-Estb.	None-Estb.	
Styrene	100-42-5	44.9	50 ppm TWA	50 ppm	(1)

(1) OSHA ceiling value is 100 ppm and ACGIH short term exposure limit (STEL) is 100 ppm. NIOSH recommends a limit of 50 ppm, 8-hour TWA; 100 ppm 15 minute ceiling.

SECTION III - Physical Data

Property	Measurement
Initial Boiling Point	For Styrene 293.48 DEG F @ 760.00 MMHG
Vapor Pressure	For Styrene 4.3 MMHG (20.00 DEG C)
Vapor Density	Air = 1 3.6
Specific Gravity	1.01-1.30 @ 77.00 DEG F (25.00 DEG C)
Percent Non-volatiles	55.14
Evaporation Rate	Slower than Ether

MATERIAL SAFETY DATA SHEET

Distributed by:

Resin

GLS Corporation
Composites Materials Division
1750 N. Kingsbury St.
Chicago, IL 60614
(312) 664-3500

Manufacturer:

Alpha/Owens Corning Corporation
4620 N. Galloway Road
Lakeland, FL 33809
(813) 858-4431

Product: ALTEK 52-511
Revision: APRIL 18, 1989

National Paint and Coatings Association Hazardous Material Identification System:

HEALTH HAZARD 2
FLAMMABILITY HAZARD 3
REACTIVITY HAZARD 2
PERSONAL PROTECTION I

SECTION I. MATERIAL IDENTIFICATION

TRADE/MATERIAL NAME: ALTEK 52-511
DESCRIPTION: DIACID/GLYCOL CONDENSATE
CAS: MIXTURE
CHEMICAL NAME: UNSATURATED POLYESTER RESIN

TRADE SECRET REGISTER: N/A

SECTION II. INGREDIENTS AND HAZARDS

<u>INGREDIENT NAME:</u>	<u>CAS NUMBER:</u>	<u>PERCENT*:</u>	<u>EXPOSURE LIMITS:</u>
STYRENE	100-42-5	44	50 PPM TWA; 100 PPM STEL

SARA 313 INFORMATION: THIS PRODUCT CONTAINS THE ABOVE SUBSTANCE WHICH IS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

* WEIGHT PERCENT

SECTION III. PHYSICAL DATA

APPEARANCE AND ODOR: VISCOUS LIQUID WITH A SWEET PUNGENT ODOR.

BOILING POINT:	293 DEG. F	EVAPORATION RATE:	3.1
VAPOR PRESSURE:	<4.5 mmHg	SPECIFIC GRAVITY:	(H2O=1) 1.0-1.1
WATER SOLUBILITY (%):	VERY SLIGHT	MELTING POINT:	N/A
VAPOR DENSITY (AIR=1):	3.6		

SECTION IV. FIRE AND EXPLOSION DATA

<u>FLASH POINT (METHOD):</u>	<u>LIMITS%:</u>	<u>AUTOIGNITION TEMP:</u>
88 - 92 DEG. F (CC)	LEL - 1.1	914 DEG. F
	UEL - 6.1	

NFPA FLAMMABLE/COMBUSTIBLE LIQUID CLASSIFICATION: 1C

Resin

MATERIAL SAFETY DATA SHEET

Ashland Chemical Co.

Page 001
Date Prepared: 01/17/97
Date Printed: 03/22/97
MSDS No: 0302364-002.002

LB 645-22 S ACC OL

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Material Identity

Product Name: LB 645-22 S ACC OL
General or Generic ID: UNSATURATED POLYESTER RESIN

Company

Ashland Chemical Co.
P.O. Box 2219
Columbus, OH 43216
614-790-3333

Emergency Telephone Number:

1-800-ASHLAND (1-800-274-5263)
24 hours everyday

Regulatory Information Number:
1-800-325-3751

2. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient(s)	CAS Number	% (by weight)
STYRENE	100-42-5	60.0- 60.0
POLYESTER RESIN	Trade Secret	20.0- 50.0

3. HAZARDS IDENTIFICATION

Potential Health Effects

Eye

Exposure can cause eye irritation. Symptoms may include stinging, tearing, redness, and swelling.

Skin

Exposure can cause skin irritation. Prolonged or repeated exposure may dry the skin. Symptoms may include redness, burning, drying and cracking, skin burns and skin damage. Skin absorption is possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

Swallowing

Single dose oral toxicity is low. Swallowing small amounts during normal handling is not likely to cause harmful effects; swallowing large amounts may be harmful. This material can enter the lungs during swallowing or vomiting and cause lung inflammation and/or damage.

Inhalation

Exposure to vapor or mist is possible. Exposure to aerosol and/or mist is possible when material is sprayed. Aerosol and mist may present a greater risk of injury because more material may be present in the air than from vapor alone. Short-term inhalation toxicity is low. Breathing small amounts during normal handling is not likely to cause harmful effects; breathing large amounts may be harmful. Symptoms are more typically seen at air concentrations exceeding the recommended exposure limits.

Symptoms of Exposure

metallic taste, gastrointestinal irritation (nausea, vomiting, diarrhea), irritation (nose, throat, respiratory tract), central nervous system (CNS) depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other CNS effects, impaired coordination, confusion, liver damage.

Continued on next page



Material Safety Data Sheet

Issued: 05/21/97
Manufactured by: Arjay Technologies, Inc.
2020 Wild Acres Road
Largo, FL 33771

Supersedes: 12/15/95
Number: 10.3

EMERGENCY CONTACT: CHEMTREC (800) 424-9300
Information Contact: (813) 538-0600

SECTION I Product Identification

Product Name: Light Weight Bonding Compound
Product Numbers: 1001, 1022, 1032
Product Class: Unsaturated Polyester Resin
Shipping Description: RESIN SOLUTION, UN1866, CLASS 3, PG III
MARINE POLLUTANT (CONTAINS STYRENE MONOMER)

SECTION II Hazardous Ingredients

COMPONENT	% WT.	CAS NO.	EXPOSURE LIMITS			
			PPM	MG/M ³	PPM	
STYRENE	24 - 30	100-42-5	TWA	50	215	5000
			PEL	100	425	
			STEL	100	425	

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 2

* SARA SECTION 313 CHEMICAL

SECTION III Physical Data

Boiling Point (Styrene)	293°F	Specific Gravity (H ₂ O = 1.0)	1.1
Melting Point	N/A	Percent Volatile by Volume	24-28
Vapor Pressure (Styrene)	3.56 MM Hg	Solubility in H ₂ O	N/A
Vapor Density (Air = 1)	2.98		



Material Safety Data Sheet

Issued: 05/21/97
 Manufactured by: Arjay Technologies, Inc.
 2020 Wild Acres Road
 Largo, FL 33771

Supersedes: 12/15/95
 Number: 40.2

EMERGENCY CONTACT: CHEMTREC (800) 424-9300
 Information Contact: (813) 538-0600

 SECTION I Product Identification

Product Name: **Core Bonding Compound**
 Product Numbers: 4001, 4002
 Product Class: **Unsaturated Polyester Resin**
 Shipping Description: RESIN SOLUTION, UN1866, CLASS 3, PG III
 MARINE POLLUTANT (CONTAINS STYRENE MONOMER)

 SECTION II Hazardous Ingredients

COMPONENT	% WT.	CAS NO.	EXPOSURE LIMITS			
			PPM	MG/M ³	PPM	
STYRENE*	24 - 30	100-42-5	TWA	50	215	5000
			PEL	100	425	
			STEL	100	425	

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 2

* SARA SECTION 313 CHEMICAL

 SECTION III Physical Data

Boiling Point (Styrene)	293°F	Specific Gravity (H ₂ O = 1.0)	1.1
Melting Point	N/A	Percent Volatile by Volume	24-28
Vapor Pressure (Styrene)	3.56 MM Hg	Solubility in H ₂ O	N/A
Vapor Density (Air = 1)	2.98		



Material Safety Data Sheet

Issued: 01/04/99
 Manufactured by: Arjay Technologies, Inc.
 2020 Wild Acres Road
 Largo, FL 33771

Supersedes: 05/21/97
 Number: 21.4
 Pages: 4

EMERGENCY CONTACT: CHEMTREC (800) 424-9300
 Information Contact: (727) 538-0600

SECTION I Product Identification

Product Name: ~~Brushable Radius Compound~~
 Product Numbers: ~~2121, 2122~~
 Product Class: ~~Unsaturated Polyester Resin~~
 Shipping Description: RESIN SOLUTION, UN1866, CLASS 3, PG III
 MARINE POLLUTANT (CONTAINS STYRENE MONOMER)

SECTION II Hazardous Ingredients

COMPONENT	% WT.	CAS NO.	EXPOSURE LIMITS			
			PPM	MG/M ³	PPM	
STYRENE*	24 - 30	100-42-5	TWA	50	215	5000
			PEL	100	425	
			STEL	100	425	

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 2

* SARA SECTION 313 CHEMICAL

SECTION III Physical Data

Boiling Point (Styrene)	293°F	Specific Gravity (H ₂ O = 1.0)	1.1
Melting Point	N/A	Percent Volatile by Volume	24-28
Vapor Pressure (Styrene)	3.56 MM Hg	Solubility in H ₂ O	N/A
Vapor Density (Air = 1)	2.98		

ARJAY**Material Safety Data Sheet**

Issued: 12/18/97
 Manufactured by: Arjay Technologies, Inc.
 2020 Wild Acres Road
 Largo, FL 33771

Number: 12.1

EMERGENCY CONTACT: CHEMTREC (800) 424-9300
 Information Contact: (813) 538-0600

SECTION I Product Identification

Product Name: ~~Fairing Compound~~
 Product Numbers: 1200, 1201
 Product Class: ~~Unsaturated Polyester Resin~~
 Shipping Description: RESIN SOLUTION, UN1866, CLASS 3, PG III
 MARINE POLLUTANT (CONTAINS STYRENE MONOMER)

SECTION II Hazardous Ingredients

COMPONENT	% WT.	CAS NO.	EXPOSURE LIMITS			
			PPM	MG/M ³	PPM	
STYRENE*	24 - 30	100-42-5	TWA	50	215	5000
			PEL	100	425	
			STEL	100	425	

HEALTH: 2 FLAMMABILITY: 3 REACTIVITY: 2

* SARA SECTION 313 CHEMICAL

SECTION III Physical Data

Boiling Point (Styrene)	293°F	Specific Gravity (H ₂ O = 1.0)	1.1
Melting Point	N/A	Percent Volatile by Volume	24-28
Vapor Pressure (Styrene)	3.56 MM Hg	Solubility in H ₂ O	N/A
Vapor Density (Air = 1)	2.98		

FOR GELCOATS, RESINS, AND RELATED MATERIALS

Prepared by- BK
 Date of Preparation- 10-06-97 For:
 Manufacturer: NESTE POLYESTER
 Address : 5106 Wheeler Ave.
 Fort Smith, AR 72901

Telephone No.: (501) 646-7865 CHEMTREC (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: CR-0425 Revision 10
 Product Class:
 Trade Name: PATCHING AID RESIN SOLUTION
 HMIS Information: Health- 2 Flammability- 3
 Reactivity- 1 Personal Protective Equipment- I

Safety Glasses, Gloves, & Combination Dust and Vapor Respirator

SECTION II HAZARDOUS INGREDIENTS

MATERIAL %

04 STYRENE CAS# 100-42-5
 % BY WT: 68.78

EXPOSURE LIMIT:
 ACGIH TLV/TWA 50 PPM
 OSHA PEL 50 PPM
 TLV-STEL 100 PPM

OTHER LIMITS:
 IARC 2B

 This product contains one or more reported carcinogens or suspected
 carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits
 recommended column.

SECTION III PHYSICAL DATA

Boiling Range: High- 295.0 F Low- 295.0 F
 Vapor Pressure: 4.30 MMHG @68 F
 Vapor Density: Heavier Than Air
 Evaporation Rate: Slower than Ether
 Weight per Gallon: 8.27
 VOC: N/A
 Physical State: LIQUID
 Appearance: LT. RED
 Odor: AROMATIC
 Water Solubility: INSOLUBLE
 UN Number: 1866 RESIN SOLUTION, FLAMMABLE

0214765 (2)

PRODUCT NAME: ~~FOURSEAL PRIMER~~
 PRODUCT CODE: 48-9001

HMS CODES: H F R P
 2* 3 2 G

===== SECTION I - MANUFACTURER IDENTIFICATION =====

MANUFACTURER'S NAME: LILLY INDUSTRIES, INC.
 ADDRESS: 28335 Clay Street, Elkhart, IN 46517
 EMERGENCY PHONE: (800) 424-9300 INFORMATION PHONE: (800) 397-1062
 DATE REVISED : 06-02-94 NAME OF PREPARER :

0214769-002

===== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION =====

HAZARDOUS COMPONENTS	CAS NUMBER	OCCUPATIONAL EXPOSURE LIMITS			VAPOR PRESSURE		WEIGHT PERCENT
		OSHA PEL	ACGIH TLV	OTHER	mm Hg @	TEMP	
*STYRENE MONOMER	100-42-5	50ppm	50ppm		4.5	68F	26
*METHYL ETHYL KETONE	78-93-3	200ppm	200ppm		70.2	68F	6
*MIBK	108-10-1	50PPM	50PPM		1.0	50F	3

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.
 This information must be included in all MSDSs that are copied and distributed for this material.

10-20-94

===== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS =====

BOILING RANGE: 175 to 293 Deg F SPECIFIC GRAVITY (H2O=1): 1.3
 VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
 SOLUBILITY IN WATER: Insoluble
 APPEARANCE AND ODOR: Free-flowing liquid. Hydrocarbon odor.

===== SECTION IV - FIRE AND EXPLOSION HAZARD DATA =====

FLASH POINT: 23 Deg F METHOD USED: TCC
 FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1.1% UPPER: 11.5%

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

SPECIAL FIREFIGHTING PROCEDURES

Closed containers may be cooled with water to prevent pressure build-up.
 Fire fighters should wear self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS

Isolate from heat, sparks, electrical equipment and open flame.
 Closed containers may explode when exposed to extreme heat.

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE IMC
 DESCRIPTION: GRAY
 PRODUCT CODE IDENTITY: 951AF041
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 02
 LAST REVISED : 03-18-96
 DATE OF ISSUE: 01-08-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64114
 PREPARED BY:
 HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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

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

SECTION II INGREDIENTS

1
 CAS# 001333-86-4
 CARBON BLACK
 PCT BY WT: .0190
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 3.5 MG/CU.M.
 OSHA PEL/TWA: 3.5 MG/CU.M.
 LD50, Oral: NOT AVAILABLE
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

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

3
 CAS# 068611-44-9
 SILICA, AMORPHOUS-HYDROPHOBIC, FUMED

COOK COMPOSITES AND POLYMERS CO.
MATERIAL SAFETY DATA SHEET

951AF041

PCT BY WT: 1 - 5

EXPOSURE LIMIT:

ACGIH TLV/TWA:	10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FR
OSHA PEL/TWA:	15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FR
LD50, Oral:	>5000 MG/KG (RAT)
LD50, Dermal:	NOT AVAILABLE
LC50, Inhalation:	NOT AVAILABLE

4 P86-0103

UNSATURATED POLYESTER RESIN

CAS# PROPRIETARY

ON TSCA INVENTORY

PCT BY WT: 30 - 40

EXPOSURE LIMIT:

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

5 P86-0103

UNSATURATED POLYESTER RESIN

CAS# PROPRIETARY

ON TSCA INVENTORY

PCT BY WT: 1 - 5

EXPOSURE LIMIT:

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

6

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 33.6370 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

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

7

CAS# 000080-62-6

METHYL METHACRYLATE

PCT BY WT: 9.7040 VAPOR PRESSURE: 29.000 MMHG @ 68F

EXPOSURE LIMIT:

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

SECTION III PHYSICAL DATA

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

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 9.47200 LB/GL

Theoretical Specific Gravity, Calculated: 1.1380

Maximum Theoretical VOC, Calculated: 4.1540 lb/gal

--If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: GRAY

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE IMC
 DESCRIPTION: MANGROVE
 PRODUCT CODE IDENTITY: 951GF317
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 03
 LAST REVISED : 06-21-96
 DATE OF ISSUE: 02-20-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY:
 HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT INFORMATION TELEPHONE:
 543772 2603 ANDALUSIA BLVD
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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

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

SECTION II INGREDIENTS

1
 CAS# 001333-86-4
 CARBON BLACK
 PCT BY WT: .1310
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 3.5 MG/CU.M.
 OSHA PEL/TWA: 3.5 MG/CU.M.
 LD50, Oral: NOT AVAILABLE
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

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

3
 CAS# 068611-44-9
 SILICA, AMORPHOUS-HYDROPHOBIC, FUMED

 COOK COMPOSITES AND POLYMERS CO.
 MATERIAL SAFETY DATA SHEET

951GF317

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

4

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY CAS# PROPRIETARY
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

5 P86-0103

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY CAS# PROPRIETARY
 PCT BY WT: 30 - 40
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

6

CAS# 000100-42-5
 STYRENE MONOMER
 PCT BY WT: 32.6640 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 50 PPM
 OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLO: 5000 PPM/8H (RAT)

7

CAS# 000080-62-6
 METHYL METHACRYLATE
 PCT BY WT: 9.3430 VAPOR PRESSURE: 29.000 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
 LD50, Oral: 7.9 G/KG (RAT)
 LD50, Dermal: 35.5 G/KG (RABBIT)
 LC50, Inhalation: >12,500 PPM/0.5H (RAT)

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.00 F
 Vapor Pressure: See Section II
 Theoretical Weight per Gallon, Calculated: 9.42950 LB/GL
 Theoretical Specific Gravity, Calculated: 1.1330
 Maximum Theoretical VOC, Calculated: 4.0270 lb/gal
 --If applicable, see Section IX for further VOC information--
 Physical State: LIQUID
 Appearance: GREEN

PART # 951LF331

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE IMC
DESCRIPTION: DARKEST BLUE
PRODUCT CODE IDENTITY: 951LF331
NPCA HMIS RATING: H 2* F 3 R 2
REVISION: 01
LAST REVISED: 03-17-98
DATE OF ISSUE: 03-26-98
COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
ADDRESS: 919 E. 14th AVENUE
NORTH KANSAS CITY, MO 64116
PREPARED BY: HAZARD COMMUNICATION DEPT.

CUSTOMER NAME: ACTION CRAFT
543772
2603 ANDALUSIA BLVD
CAPE CORAL FL 33909
INFORMATION TELEPHONE:
COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5341

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

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

SECTION II INGREDIENTS

1
CAS# 001333-86-4
CARBON BLACK
PCT BY WT: .1760
EXPOSURE LIMIT:
ACGIH TLV/TWA: 3.5 MG/CU.M.
OSHA PEL/TWA: 3.5 MG/CU.M.
LD50, Oral: NOT AVAILABLE
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE

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

3
CAS# 068611-44-9
SILICA, AMORPHOUS-HYDROPHOBIC, FUMED

 COOK COMPOSITES AND POLYMERS CO.
 MATERIAL SAFETY DATA SHEET

951LF331

PCT BY WT: 1 - 5
 EXPOSURE LIMIT:

ACGIH TLV/TWA: 10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FR
 OSHA PEL/TWA: 15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FR
 LD50, Oral: >5000 MG/KG (RAT)
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

4

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY

CAS# PROPRIETARY

PCT BY WT: 5 - 10

EXPOSURE LIMIT:

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

5 PB6-0103

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY

CAS# PROPRIETARY

PCT BY WT: 30 - 40

EXPOSURE LIMIT:

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

6

CAS# 000100-42-5

STYRENE MONOMER

PCT BY WT: 33.0710 VAPOR PRESSURE: 4.500 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 50 PPM
 OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LC50: 5000 PPM/8H (RAT)

7

CAS# 000080-62-6

METHYL METHACRYLATE

PCT BY WT: 9.1390 VAPOR PRESSURE: 29.000 MMHG @ 68F

EXPOSURE LIMIT:

ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
 LD50, Oral: 7.9 G/KG (RAT)
 LD50, Dermal: 33.5 G/KG (RABBIT)
 LC50, Inhalation: >12,500 PPM/0.5H (RAT)

SECTION III PHYSICAL DATA

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

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 9.37730 LB/GAL

Theoretical Specific Gravity, Calculated: 1.1270

Maximum Theoretical VOC, Calculated: 4.0310 lb/gal

--If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: BLUE



foam supplies, inc.

4387 North Rider Trail
Earth City, Missouri 63045-1103
Tel: 314-344-3330
1-800-325-4875
Fax: 314-344-3331

Material Safety Data Sheet

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Emergency Phone Number: 314-344-3330

PRODUCT: ~~ESI/DS P.U.F.~~ ~~ESI/MS P.U.F.~~ ~~ESI/BS P.U.F.~~

REVISION DATE: 12/29/97
PRINTED DATE: 2/11/99

Foam Supplies, Inc.
4387 North Rider Trail
Earth City, MO 63045-1103

2. COMPOSITION/INFORMATION ON INGREDIENTS

Polymethylene polyphenyl isocyanate	CAS# 009016-87-9	90-100%
containing 4,4' Methylene bisphenyl isocyanate (see Regulatory Information Page)	CAS# 000101-68-8	
Chlorodifluoromethane	CAS# 75-45-6	< 6%

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

 * Brown liquid. Harmful if inhaled. May cause allergic skin reaction. May cause allergic respiratory reaction. Toxic *
 * fumes are released in fire situations. Avoid temperature above 105F (41C). Toxic flammable gases and heat are *
 * released under decomposition conditions. Reacts slowly with water, releasing carbon dioxide, which can cause *
 * pressure buildup and rupture of closed containers. Elevated temperatures accelerate this process. *

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

EYE: May cause moderate eye irritation. May cause very slight transient (temporary) corneal injury.
SKIN: Prolonged or repeated exposure may cause skin irritation. Skin contact may result in allergic skin reactions or respiratory sensitization but is not expected to result in absorption of amounts sufficient to cause other adverse effects. May stain skin.
INGESTION: Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.
INHALATION: At room temperature, vapors are minimal due to low vapor pressure. However, certain operations may generate vapor or aerosol concentrations sufficient to cause irritation or other adverse effects. Such operations include those in which the material is heated, sprayed, or otherwise mechanically dispersed such as drumming, venting or pumping. Excessive exposure may cause irritation of the eyes, upper respiratory tract, and lungs. May cause respiratory sensitization in susceptible individuals. MDI concentrations below the exposure guidelines may cause allergic respiratory reactions in individuals already sensitized. Symptoms may include coughing, difficult breathing and a feeling of tightness in the chest. Effects may be delayed. Impaired lung function (decreased ventilatory capacity) has been associated with overexposure to isocyanates.
SYSTEMIC (OTHER TARGET ORGAN) EFFECTS: Tissue injury in the upper respiratory tract and lung has been observed in laboratory animals after repeated excessive exposures to MDI/polymeric MDI aerosols.
CANCER INFORMATION: Lung tumors have been observed in laboratory animals exposed to aerosol droplets of MDI/Polymeric MDI (6 mg/m³) for their lifetime. Tumors occurred concurrently with respiratory irritation and lung injury. Current exposure guidelines are expected to protect against these effects.
TERATOLOGY (BIRTH DEFECTS): In laboratory animals, MDI/polymeric MDI did not produce birth defects; other fetal effects occurred only at high doses which were toxic to the mother.



foam supplies, inc.

MATERIAL SAFETY DATA SHEET
 For chemicals, coatings, and related materials

 4387 North Rider Trail
 Earth City, Missouri 63045-1103
 Tel: 314-344-3330
 1-800-325-4875
 Fax: 314-344-3331

Date Revised: 1/4/1999

Date Printed: 2/3/1999

Foam Supplies, Inc.

 4387 North Rider Trail
 Earth City, MO 63045
Emergency Phone Number

Day: 314-344-3330

Night: 314-344-3330

1. Product

Number: C3-I.8-PUF NON CFC

Name: 86-A-95 Part B

Class: Foam Polyurethane Base

H.M.L.S. Hazard Codes

Health: 1 Slight

Flammability: 1 Slight

Reactivity: 0 Minimal

Personal Protective Equipment: X

2. Hazardous Ingredients

Ingredient Material Description	: Percent : By Weight	: C. A. S. : Registry No.	: LEL : %	: Vapor Pressure : PSIA @ 25°C
Methane, Chlorodifluoro	5-15	75-45-6	N/A	151
Amine Catalyst	0-2	Proprietary	N/A	N/A
Oxyethylated Aliphatic Amine	0-15	62476-52-2	N/A	N/A

3. Health Hazard Data**Effects of Overexposure:**

Threshold Limit Values: See Section 11

Liquid contact may cause eye irritation. Vapors may be mildly irritating to eyes.

Repeated or prolonged skin contact may cause irritation and drying.

Excessive inhalation of chlorodifluoromethane vapors can cause respiratory irritation, dizziness, etc., and even unconsciousness or asphyxiation. Overexposure to chlorodifluoromethane can cause cardiac sensitization to epinephrine.

4. First Aid**Emergency and First Aid Procedures:**

Flush eyes with large amounts of water for at least 15 minutes.

Get medical attention.

Wash skin thoroughly with large amounts of soap and water.

Consult a physician if irritation develops or persists.

Remove contaminated clothing and wash before re-use.

If affected by vapors, remove patient to fresh air and get medical attention. Give oxygen or artificial respiration if necessary. Do not give stimulants. Ephinephrine and similar drugs may adversely affect the heart due to a possible risk of eliciting cardiac dysrhythmias.

If swallowed, do not induce vomiting. Get medical attention immediately.

The hazard of aspirating material into the lungs is greater than the hazard associated with allowing material to progress through the intestinal tract.

Carcinogenic According to NTP, IARC, or OSHA

This product does not contain ingredients listed by NTP, IARC, or OSHA.

5. Fire and Explosion Hazard Data

Flash Point: > 300.0 °F

Explosive Limits: LEL UEL (%V in air)

(Method Used) Pensky-Martens

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE IMC
 DESCRIPTION: MINT GREEN
 PRODUCT CODE IDENTITY: 951GF353
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 03
 LAST REVISED : 08-21-96
 DATE OF ISSUE: 02-28-98
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY:
 HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-621-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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 ingredient in Section II.
 =====

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

SECTION II INGREDIENTS

1
 CAS# 013463-67-7
 TITANIUM DIOXIDE
 PCT BY WT: 10 - 20
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10 MG/CU.M. (TOTAL DUST)
 OSHA PEL/TWA: 10 MG/CU.M. (TOTAL DUST)
 LD50, Oral: >7500 MG/KG (RAT)
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

2
 CAS# 068611-44-9
 SILICA, AMORPHOUS-HYDROPHOBIC, FUMED
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FR
 OSHA PEL/TWA: 15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FR
 LD50, Oral: >5000 MG/KG (RAT)
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

3
 UNSATURATED POLYESTER RESIN

 COOK COMPOSITES AND POLYMERS CO.
 MATERIAL SAFETY DATA SHEET

951GF353

ON TSCA INVENTORY CAS# PROPRIETARY
 PCT BY WT: 1 - 5
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

4 P86-0103

UNSATURATED POLYESTER RESIN
 ON TSCA INVENTORY CAS# PROPRIETARY
 PCT BY WT: 30 - 40
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: NONE ESTABLISHED
 OSHA PEL/TWA: NONE ESTABLISHED

5

CAS# 000100-42-5
 STYRENE MONOMER
 PCT BY WT: 28.6760 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 50 PPM
 OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLO: 5000 PPM/8H (RAT)

5

CAS# 000080-62-6
 METHYL METHACRYLATE
 PCT BY WT: 9.8010 VAPOR PRESSURE: 29.000 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
 LD50, Oral: 7.9 G/KG (RAT)
 LD50, Dermal: 35.5 G/KG (RABBIT)
 LC50, Inhalation: >12,500 PPM/0.5H (RAT)

SECTION III PHYSICAL DATA

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

Vapor Pressure: See Section II

Theoretical Weight per Gallon, Calculated: 10.28050 LB/GL

Theoretical Specific Gravity, Calculated: 1.2350

Maximum Theoretical VOC, Calculated: 4.0100 lb/gal

--If applicable, see Section IX for further VOC information--

Physical State: LIQUID

Appearance: GREEN

Odor: MODERATE AROMATIC

Odor Threshold: -N/A

PH: -N/A

Freezing Point: -N/A

Water Solubility: -N/A

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: ARMORCOTE IMC
DESCRIPTION: SIMPLY AQUA
PRODUCT CODE IDENTITY: 951LF288
NPCA HMIS RATING: H 2* F 3 R 2

REVISION: 01
LAST REVISED : 06-06-96
DATE OF ISSUE: 02-28-98

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

PREPARED BY:
HAZARD COMMUNICATION DEPT.

CUSTOMER NAME: ACTION CRAFT
543772 2603 ANDALUSIA BLVD

INFORMATION TELEPHONE:

COMPOSITES: 1-800-821-3590
POLYMERS: 1-800-488-5541

CAPE CORAL FL 33909
ATTENTION:

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

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SECTION II INGREDIENTS

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

2
CAS# 068611-44-9
SILICA, AMORPHOUS-HYDROPHOBIC, FUMED
PCT BY WT: 1 - 5
EXPOSURE LIMIT:
ACGIH TLV/TWA: 10MG/CU.M.(TOT. DUST);5MG/CU.M.(RESPIRABLE FR
OSHA PEL/TWA: 15MG/CU.M.(TOT.DUST);5MG/CU.M.(RESPIRABLE FR
LD50, Oral: >5000 MG/KG (RAT)
LD50, Dermal: NOT AVAILABLE
LC50, Inhalation: NOT AVAILABLE

3
UNSATURATED POLYESTER RESIN

COOK COMPOSITES AND POLYMERS CO.
MATERIAL SAFETY DATA SHEET

951LF288

ON TSCA INVENTORY CAS# PROPRIETARY
PCT BY WT: 1 - 5
EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

4 P86-0103

UNSATURATED POLYESTER RESIN
ON TSCA INVENTORY CAS# PROPRIETARY
PCT BY WT: 30 - 40
EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

5 P86-0103

UNSATURATED POLYESTER RESIN
ON TSCA INVENTORY CAS# PROPRIETARY
PCT BY WT: 1 - 5
EXPOSURE LIMIT:
ACGIH TLV/TWA: NONE ESTABLISHED
OSHA PEL/TWA: NONE ESTABLISHED

6

CAS# 000100-42-5
STYRENE MONOMER
PCT BY WT: 31.9550 VAPOR PRESSURE: 4.500 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
OSHA PEL/TWA: 50 PPM
OSHA PEL/CEILING: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
OSHA PEL/STEL: ACCEPTABLE 15 MIN TWA - 200 PPM MAX.
LD50, Oral: 4.37 G/KG (RAT)
LD50, Dermal: >5 G/KG (RABBIT)
OTHER: LCLO: 5000 PPM/8H (RAT)

7

CAS# 000080-62-6
METHYL METHACRYLATE
PCT BY WT: 9.2290 VAPOR PRESSURE: 29.000 MMHG @ 68F
EXPOSURE LIMIT:
ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
LD50, Oral: 7.9 G/KG (RAT)
LD50, Dermal: 35.5 G/KG (RABBIT)
LC50, Inhalation: >12,500 PPM/0.5H (RAT)

SECTION III PHYSICAL DATA

Boiling Range: High- -N/A F Low- 212.00 F
Vapor Pressure: See Section II
Theoretical Weight per Gallon, Calculated: 9.53480 LB/GL
Theoretical Specific Gravity, Calculated: 1.1460
Maximum Theoretical VOC, Calculated: 3.9990 lb/gal
--If applicable, see Section IX for further VOC information--
Physical State: LIQUID
Appearance: BLUE
Odor: MODERATE AROMATIC

MATERIAL SAFETY DATA SHEET

FOR GELCOATS, RESINS, AND RELATED MATERIALS

84357

Prepared by- BK
Date of Preparation- 09-19-97
Manufacturer: NESTE POLYESTER
Address : 5106 Wheeler Ave.
Fort Smith, AR 72901

For: GLS CORPORATION
3715 N. FRONTAGE ROAD
LAKELAND FL 33809

Telephone No.: (501) 646-7865 CHEMTREC (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: WG-20990 Revision 10

Product Class:
Trade Name: WHITE TINT BASE GEL COAT

HMIS Information: Health- 2 Flammability- 3
Reactivity- 1 Personal Protective Equipment- I

Safety Glasses, Gloves, & Combination Dust and Vapor Respirator

SECTION II HAZARDOUS INGREDIENTS

MATERIAL %

06 METHYL METHACRYLATE CAS# 80-62-6
% BY WT: 10-15

EXPOSURE LIMIT:
ACGIH TLV/TWA 100 PPM
TLV-STEL NONE

15 STYRENE CAS# 100-42-5
% BY WT: 25.37

EXPOSURE LIMIT:
ACGIH TLV/TWA 50 PPM
OSHA PEL 50 PPM
TLV-STEL 100 PPM

OTHER LIMITS:
IARC 2B

This product contains one or more reported carcinogens or suspected carcinogens which are noted NTP, IARC, or OSHA-Z in the other limits recommended column.

This product contains pigments which may become a dust nuisance when removed by abrasive blasting, sanding, or grinding.

LILLY

MATERIAL SAFETY DATA SHEET

FOR COATING, RESINS, AND RELATED MATERIALS

Date of Preparation- 05-14-98
Prepared by- R. Smothers
Manufacturer: LILLY INDUSTRIES, INC.
Address : 2355 Southwest 66th Terrace
Davie, Florida 33317

Telephone#: (305) 475-0150 Night: (305) 475-0150
Emergency#: (305) 475-0150 Night: (800) 424-9300

SECTION I PRODUCT IDENTIFICATION

Manufacturer's Code Identification: 766W8144
Product Class: POLYESTER GEL-KOTE
Trade Name: GL WHITE GEL-KOTE (766W8144)

HMIS Information: Health- 2* Flammability- 3
Reactivity- 2 Personal Protective Equipment- X
HAZARD INDEX: 4= Severe 3= Serious 2= Moderate 1= Slight 0= Least
*= Chronic health hazard

X= Ask your supervisor for specific handling directions (See Section VIII).

SECTION II HAZARDOUS INGREDIENTS

METHYL METHACRYLATE

01 CAS# 80-62-6
% BY WT: 6.000 VAPOR PRESSURE: 29.00 MMHG @ 20C

EXPOSURE LIMIT

ACGIH TLV (TWA) 100.00 PPM
OSHA PEL (TWA) 100.00 PPM

STYRENE MONOMER

02 CAS# 100-42-5
% BY WT: 31.558 VAPOR PRESSURE: 9.50 MMHG @ 20C

EXPOSURE LIMIT

ACGIH TLV (TWA) 50.00 PPM
OSHA PEL (TWA) 100.00 PPM
ACGIH STEL 100.00 PPM
Skin notation YES
Carcinogen 2B, IARC

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR
 DESCRIPTION: L/F ORANGE TOOLING
 PRODUCT CODE IDENTITY: 945YA058
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 03
 LAST REVISED : 05-06-96
 DATE OF ISSUE: 06-10-97
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY:
 HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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

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

SECTION II INGREDIENTS

1
 CAS# 000080-62-6
 METHYL METHACRYLATE
 PCT BY WT: 4.7370 VAPOR PRESSURE: 29.000 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 100 PPM (410 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM (410 MG/CU.M.)
 LD50, Oral: 7.9 G/KG (RAT)
 LD50, Dermal: 35.5 G/KG (RABBIT)
 LC50, Inhalation: >12,500 PPM/0.5H (RAT)

2
 CAS# 000100-42-5
 STYRENE MONOMER
 PCT BY WT: 42.3120 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM
 OSHA PEL/CEILING: ACCEPTABLE CEILING CONCENTRATION - 200 PPM
 OSHA PEL/STEL: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLO: 5000 PPM/SH (RAT)

gel

MATERIAL SAFETY DATA SHEET

SECTION I - IDENTIFICATION

TRADE NAME: POLYCOR
 DESCRIPTION: MEDIUM GRAY SANDABLE
 PRODUCT CODE IDENTITY: 944A083
 NPCA HMIS RATING: H 2* F 3 R 2
 REVISION: 09
 LAST REVISED: 01-17-96
 DATE OF ISSUE: 05-08-97
 COMPANY NAME: COOK COMPOSITES AND POLYMERS CO.
 ADDRESS: 919 E. 14th AVENUE
 NORTH KANSAS CITY, MO 64116
 PREPARED BY: HAZARD COMMUNICATION DEPT.
 CUSTOMER NAME: ACTION CRAFT
 543772 2603 ANDALUSIA BLVD
 INFORMATION TELEPHONE:
 COMPOSITES: 1-800-821-3590
 POLYMERS: 1-800-488-5541
 CAPE CORAL FL 33909
 ATTENTION:

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

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

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

SECTION II INGREDIENTS

1
 CAS# 001333-86-4
 CARBON BLACK
 PCT BY WT: .1390
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 3.5 MG/CU.M.
 OSHA PEL/TWA: 3.5 MG/CU.M.
 LD50, Oral: NOT AVAILABLE
 LD50, Dermal: NOT AVAILABLE
 LC50, Inhalation: NOT AVAILABLE

2
 CAS# 000100-42-5
 STYRENE MONOMER
 PCT BY WT: 35.9000 VAPOR PRESSURE: 4.500 MMHG @ 68F
 EXPOSURE LIMIT:
 ACGIH TLV/TWA: 50 PPM (SKIN) (213 MG/CU.M.)
 ACGIH TLV/STEL: 100 PPM (SKIN) (426 MG/CU.M.)
 OSHA PEL/TWA: 100 PPM
 OSHA PEL/CEILING: ACCEPTABLE CEILING CONCENTRATION - 200 PPM
 OSHA PEL/STEL: ACCEPTABLE PEAK (5 MIN/3 HR) - 600 PPM MAX.
 LD50, Oral: 4.37 G/KG (RAT)
 LD50, Dermal: >5 G/KG (RABBIT)
 OTHER: LCLO: 5000 PPM/8H (RAT)