

Appendix B and Appendix C

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Appendix B
Material Safety Data Sheets (MSDSs) for Boat Tested Paints

MSDS for Sher-Release



Material Number / Product Name:
Surface Coat Part A - Black

Associated Product Codes / Catalog Numbers:
940SA1-DA4, 940SA5-DA4

1 PRODUCT AND COMPANY IDENTIFICATION

Distributed in the U.S.A. by:
FUJIFILM Hunt Smart Surfaces, LLC
40 Boroline Road
Allendale, New Jersey 07401-0320

Emergency Telephone (24 Hrs.):
Transport-CHEMTREC inside NA: 800-424-9300
Transport-CHEMTREC outside NA: 703-527-3887
Medical-PROSAR inside NA: 877-935-7387

Non-emergency Telephone:
800-473-3854

MSDS are available at:
<http://www.fujihuntusa.com/>

Intended Use: Fouling release coating

2 HAZARDS IDENTIFICATION

Emergency Overview

Physical State: Liquid
Color: Black
Odor: Hydrocarbon

WARNING!
Harmful if absorbed through skin. May be harmful if swallowed. May cause eye, skin and respiratory tract irritation. Octamethylcyclotetrasiloxane: Possible reproductive and developmental hazard. Combustible liquid and vapor.

Potential Health Effects

Inhalation: May cause respiratory tract irritation. Vapors may cause drowsiness and dizziness.

Eye Contact: May cause eye irritation. Exposed individuals may experience eye tearing, redness, and discomfort.

Skin Contact: Harmful if absorbed through skin. May cause skin irritation. Defats the skin.

Ingestion: May be harmful if swallowed.

Chronic Health Effects: Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain. Octamethylcyclotetrasiloxane: May cause harm to the unborn child.

Target Organ(s): | Eye | Lung | Skin | Reproductive system | Central nervous system.
Respiratory system |

Potential Physical / Chemical Effects: The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures.

OSHA Regulatory Status: This product is hazardous according to OSHA 29CFR 1910.1200.

Environment: The product contains volatile organic compounds which have a photochemical ozone creation potential.

3 COMPOSITION / INFORMATION ON INGREDIENTS

General Information: The product is a mixture.

Chemical Name	CAS-No.	Concentration*
Siloxanes & silicones	70131-67-8	50 - 70%
Methyl phenyl polysiloxane	68083-14-7	7 - 15%
†Silica	7631-86-9	7 - 15%
Vinyl silicone polymer	68083-19-2	3 - 7%
†Naphtha (petroleum), hydrotreated light	64742-49-0	3 - 7%
†Coating ferrite powder	68186-94-7	3 - 7%
Amorphous Silica (modified)	68909-20-6	1 - 5%
†Octamethylcyclotetrasiloxane	556-67-2	1 - 5%

* All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.
† This chemical is hazardous according to OSHA/WHMIS criteria.

4 FIRST AID MEASURES

General: Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

Inhalation: Move injured person into fresh air and keep person calm under observation. If breathing stops, provide artificial respiration. For breathing difficulties, oxygen may be necessary. Get medical attention.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention if any discomfort continues.

Skin Contact: Immediately flush thoroughly with water for at least 15 minutes. Get medical attention if irritation develops and persists.

Ingestion: Rinse mouth thoroughly with water and give large amounts of milk or water, if person is conscious. Get medical attention if any discomfort occurs. Only induce vomiting at the instruction of medical personnel.

5	FIRE-FIGHTING MEASURES
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Extinguishing Media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.

Special Fire Fighting Procedures: Use standard firefighting procedures and consider the hazards of other involved materials. Cool containers exposed to heat with water spray and remove container, if no risk is involved.

Unusual Fire & Explosion Hazards: Vapors are heavier than air and may travel along the floor and in the bottom of containers. Vapors may be ignited by a spark, a hot surface or an ember. Solvent vapors may form explosive mixtures with air. Fire or excessive heat may result in rupture of container due to release of significant amounts of gases. During fire, gases hazardous to health may be formed.

Hazardous Combustion Products: Benzene, Carbon Oxides, Formaldehyde, Formic acid, Silicium oxide

Protective Measures: Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

Flammability Class: NFPA Rating Fire = 2. Materials that must be moderately heated or exposed to relative high ambient temperatures before ignition can occur.

6	ACCIDENTAL RELEASE MEASURES
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Personal Precautions: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate the area. Avoid inhalation of vapors and contact with skin and eyes. Wear appropriate personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Spill Cleanup Methods: Remove sources of ignition. Absorb spillage with non-combustible, absorbent material. Collect and dispose of spillage as indicated in section 13 of the MSDS.

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

7	HANDLING AND STORAGE
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Handling: Use only in well-ventilated areas. Local exhaust is recommended. Avoid contact with eyes, skin, and clothing. Avoid breathing mist or vapor. Do not taste or swallow. Vapors are heavier than air and may travel along the floor and in the bottom of containers. Do not smoke and do not spray near an open flame or other sources of ignition. Wear protective gloves and appropriate clothing to prevent skin contact. Wash at the end of each work shift and before eating, smoking and using the toilet. Material can accumulate static charges which may cause an electrical spark (ignition source). Use proper bonding and/or grounding procedures. Observe good industrial hygiene practices.

Storage: Follow rules for flammable liquids. Store in a cool and well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use. Store away from

incompatible materials.

8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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Exposure Limits:

Chemical Name	Source	Type	Exposure Limits	Notes
Coating ferrite powder	US. ACGIH TLV	TWA	0.2 mg/m ³	as Mn
Coating ferrite powder	US. NIOSH Guide	IDLH	500 mg/m ³	
Coating ferrite powder	US. OSHA Z-1 PEL	Ceiling	5 mg/m ³	as Mn
Silica	US. ACGIH TLV	TWA	10 mg/m ³	
Silica	US. NIOSH Guide	IDLH	3000 mg/m ³	
Silica	US. OSHA Z-3 PEL	TWA	20 Mppcf	

Engineering Controls: Use explosion-proof ventilation equipment. Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Provide shower facilities near the work place.

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA Standard 63 FR 1152, January 8, 1998. Respirator type: High-efficiency particulate respirator. Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister. Contact health and safety professional or manufacturer for specific information.

Eye Protection: Wear approved safety goggles.

Hand Protection: Wear protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

Skin Protection: Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned.

Environmental Exposure Controls: Environmental manager must be informed of all major spillages.

9	PHYSICAL AND CHEMICAL PROPERTIES
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Color: Black

Odor: Hydrocarbon

Odor Threshold: No data available.

Physical State: Liquid

pH: Not applicable

Melting Point: Not applicable.
Freezing Point: No data available.
Boiling Point: No data available.
Flash Point: 40°C (104°F) - 43°C (109°F)
Evaporation Rate: <1 (n-Butyl acetate)
Flammability (Solid): No data available.
Flammability Limit - Upper (%): No data available.
Flammability Limit - Lower (%): No data available.
Vapor Pressure: No data available.
Vapor Density (Air=1): > 1
Specific Gravity: 1.05
Solubility in Water: Insoluble in water
Solubility (Other): No data available.
Partition Coefficient (n-Octanol/water): No data available.
Autoignition Temperature: No data available.
Decomposition Temperature: No data available.
Volatile Organic Compounds (VOC): 0.4 lbs/gal or 45 g/l
Viscosity: No data available.
Percent Volatile: 4 - 5 %w
Explosive Properties: No data available

10	STABILITY AND REACTIVITY
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Stability: This product is stable under expected conditions of use.

Conditions to Avoid: Heat, sparks, flames. Ignition sources.

Incompatible Materials: Strong acids. Strong bases. Strong oxidizing agents.

Hazardous Decomposition Products:

At Elevated Temperatures:	Benzene, Carbon Oxides, Formaldehyde, Formic acid, Silicon oxide
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Possibility of Hazardous Reactions: Will not occur.

11	TOXICOLOGICAL INFORMATION
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Specified Substance(s)

Acute Toxicity:

Chemical Name	Test Results
Silica	Inhalation Lethal Concentration (1 hour(s), Rat): > 200000 mg/m ³
Siloxanes & silicones	Dermal LD50 (Rabbit): >16 ml/kg
Siloxanes & silicones	Oral LD50 (Rat): >64 ml/kg
Octamethylcyclotetrasiloxane	Dermal LD50 (Rabbit): 759 mg/kg
Octamethylcyclotetrasiloxane	Oral LD50 (Rat): 1540 mg/kg

Listed Carcinogens:

Chemical Name	IARC	NTP	OSHA	ACGIH
Silica	3	Not Listed	Not Listed	Not Listed

IARC: 1 = Carcinogenic to Humans; 2A = Probably Carcinogenic to Humans; 2B = Possibly Carcinogenic to Humans; 3 = Not classifiable as to carcinogenicity to humans; 4 = Probably not carcinogenic to humans; Not listed = Not evaluated by IARC.

ACGIH: A1 = Confirmed Human Carcinogen; A2 = Suspected Human Carcinogen; A3 = Confirmed Animal Carcinogen; A4 = Not classifiable as a human carcinogen; A5 = Not suspected to be a human carcinogen; Not listed = Not evaluated by ACGIH.

Product Information

Acute Toxicity: Harmful if absorbed through skin. May cause eye, skin and respiratory tract irritation. May be harmful if swallowed.

Chronic Toxicity: Organic solvents may be absorbed into the body by inhalation and cause permanent damage to the nervous system, including the brain. Octamethylcyclotetrasiloxane: May impair fertility. May cause harm to the unborn child.

12 ECOLOGICAL INFORMATION

Ecotoxicity: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Mobility: The product contains organic solvents which will evaporate easily from all surfaces.

Persistence and Degradability: No data on possible environmental effects have been found.

Bioaccumulation Potential: No data available on bioaccumulation.

Other Adverse Effects: The product contains a substance which has a photochemical ozone creation potential.

13 DISPOSAL CONSIDERATIONS

General Information: Dispose of waste and residues in accordance with local authority requirements.

Disposal Instructions: Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

RCRA Information: D001

14 TRANSPORT INFORMATION

DOT

UN No.: UN1263

Proper Shipping Name: Paint

Class: 3

Packing Group: III

Label(s): 3

TDG

UN No.: UN1263

Proper Shipping Name: Paint

Class: 3

Packing Group: III**IATA****UN No.:** UN1263**Proper Shipping Name:** Paint**Class:** 3**Packing Group:** III**Label(s):** 3**IMDG****UN No.:** UN1263**Proper Shipping Name:** Paint**Class:** 3**Packing Group:** III**EmS No.:** F-E, S-E**15 REGULATORY INFORMATION**

Canadian Controlled Products Regulations: This product has been classified according to the hazard criteria of the Canadian Controlled Products Regulations, Section 33, and the MSDS contains all required information.

WHMIS Classification: B3, D1B, D2A

Mexican Dangerous Statement: This product is dangerous according to Mexican regulations.

Inventory Status

This product or all components are listed or exempt from listing on the following inventory: DSL, TSCA

US Regulations

CERCLA Hazardous Substance List (40 CFR 302.4): Not regulated.

SARA Title III

Section 302 Extremely Hazardous Substances (40 CFR 355, Appendix A): Not regulated.

Section 311/312 (40 CFR 370):

Acute (Immediate) Chronic (Delayed) Fire Reactive Pressure Generating

Section 313 Toxic Release Inventory (40 CFR 372):

Chemical Name	CAS-No.	Reporting threshold for other users	Reporting threshold for manufacturing and processing
Coating ferrite powder	68186-94-7	10000 lbs	25000 lbs

For reporting purposes: the De Minimis Concentration for a toxic chemical in a mixture is 0.1% for carcinogens as defined in 29 CFR 1910.1200(d)(4) or 1% for others.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

Not regulated.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3): Not regulated.

Drug Enforcement Act: Not regulated.

TSCA

TSCA Section 4(a) Final Test Rules & Testing Consent Orders: Not regulated.

TSCA Section 5(a)(2) Final Significant New Use Rules (SNURs) (40CFR 721, Subpt. E): Not regulated.

TSCA Section 5(e) PMN-Substance Consent Orders: Not regulated.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D): Not regulated.

State Regulations

Massachusetts Right-To-Know List: Silica

Michigan Critical Materials List (Michigan Natural Resources and Environmental Protection Act (Act. 451 of 1994)): Not regulated.

Minnesota Hazardous Substances List: Coating ferrite powder; Silica

New Jersey Right-To-Know List: Coating ferrite powder; Silica

Pennsylvania Right-To-Know List: Silica

Rhode Island Right-To-Know List: Coating ferrite powder

16	OTHER INFORMATION
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HAZARD RATINGS

	Health Hazard	Fire Hazard	Instability	Special Hazard
NFPA	2	2	0	--

	Health Hazard	Flammability	Physical Hazard	Personal Protection
HMIS	2*	2	0	C

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe * - Chronic Health Effect
Personal Protection codes: C - Safety Glasses, Gloves, Apron

General Information: IMO Antifouling Convention (AFS/CONF/26) Compliant. Organotin compounds not used as biocide in this fouling-release system.

Issue Date: 21-Oct -2010

Supersedes Date: 25-Aug-2010

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.

MSDS for XZM 480

Safety Data Sheet for an Experimental Product

XZM480

International

Version No. 1 Date Last Revised 04/10/10

3. Composition/information on ingredients

If the product contains substances that present a health hazard within the meaning of the Dangerous Substances Directive 67/548/EC, or have occupational exposure limits detailed in EH40, these substances are listed below.

Ingredient	EINECS	Concentration %w/w	Symbol(s)	Risk phrases (*)
1,2,4-Trimethylbenzene	202-436-9	2.5 - < 10	Xn,N	R10,R20,R36/37/38,R51-53
1,3,5-trimethylbenzene	203-604-4	1 - < 2.5	Xi,N	R10, R37, R51-53
Methanol	200-659-6	0 - < 1	F,T	R11,R23/24/25,R39/23/24/25
Silsesquioxanes, 3-aminopropyl methyl, ethoxy-terminated	603-274-5	1 - < 2.5	Xi	R10, R36/38
Solvent naphtha (petroleum), light aromatic	265-199-0	10 - < 25	Xn,N	R51-53, R65
Trimethoxy(methyl)silane	214-685-0	1 - < 2.5	Xi	R11, R38
Vinyltrimethoxysilane	220-449-8	1 - < 2.5	Xn	R10, R20

* The full texts of the phrases are shown in section 16.

4. First aid measures

General

In all cases of doubt, or when symptoms persist, seek medical attention.

Never give anything by mouth to an unconscious person.

Inhalation

Remove to fresh air, keep patient warm and at rest. If breathing is irregular or stopped, give artificial respiration. If unconscious place in the recovery position and obtain immediate medical attention. Give nothing by mouth.

Eye Contact

Irrigate copiously with clean fresh water for at least 10 minutes, holding the eyelids apart and seek medical attention.

Skin Contact

Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognised skin cleanser. Do NOT use solvents or thinners.

Ingestion

If accidentally swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.



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5. Fire-fighting measures

Recommended extinguishing media; alcohol resistant foam, CO₂, powder, water spray.

Do not use; water jet.

Note; Fire will produce dense black smoke. Decomposition products may be hazardous to health. Avoid exposure and use breathing apparatus as appropriate.

Cool closed containers exposed to fire by spraying them with water. Do not allow run off water and contaminants from fire fighting to enter drains or water courses.

6. Accidental release measures

Remove sources of ignition, do not turn lights or unprotected electrical equipment on or off. In case of a major spill or spillage in a confined space evacuate the area and check that solvent vapour levels are below the Lower Explosive Limit before re-entering.

Ventilate the area and avoid breathing vapours. Take the personal protective measures listed in section 8.

Contain and absorb spillage with non-combustible materials e.g. sand, earth, vermiculite. Place in closed containers outside buildings and dispose of according to the Waste Regulations. (See section 13).

Clean, preferably with a detergent. Do not use solvents.

Do not allow spills to enter drains or watercourses.

If drains, sewers, streams or lakes are contaminated, inform the local water company immediately. In the case of contamination of rivers, streams or lakes the Environmental Protection Agency should also be informed.



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7. Handling and storage

Handling

This coating contains solvents. Solvent vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air. Areas of storage, preparation and application should be ventilated to prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.

In Storage

Handle containers carefully to prevent damage and spillage.

Naked flames and smoking should not be permitted in storage areas. It is recommended that fork lift trucks and electrical equipment are protected to the appropriate standard.

In Use

Avoid skin and eye contact. Avoid inhalation of vapours and spray mists. Observe label precautions. Use personal protection as shown in section 8.

Smoking, eating and drinking should be prohibited in all preparation and application areas.

Never use pressure to empty a container; containers are not pressure vessels.

All sources of ignition (hot surfaces, sparks, open flames etc) should be excluded from areas of preparation and application. All electrical equipment (including torches) should be protected (Ex) to the appropriate standard.

The product may charge electrostatically. Always use earthing leads when pouring solvents and transferring product. Operators should wear clothing which does not generate static (at least 60% natural fibre) and antistatic footwear; floors should be of conducting type.

Activities such as sanding, burning off etc. of paint films may generate dust and/or fumes hazardous to the skin and lungs. Work in well ventilated areas. Use local exhaust ventilation and personal skin and respiratory protective equipment as appropriate.

Storage

Store in a well ventilated, dry place away from sources of heat and direct sunlight.

Store on concrete or other impervious floor, preferably with bunding to contain any spillage. Do not stack more than 3 pallets high.

Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Keep in the original container or one of the same material.

Prevent unauthorised access.



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8. Exposure controls and personal protection

Engineering Measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and any vapour below occupational exposure limits suitable respiratory protection must be worn.

Exposure Limits

The following workplace exposure limits have been established by the Health and Safety Executive as published in EH40.

Material	Short term (15 min. ave)		Long term (8hr TWA)		Comments
	ppm	mg/m ³	ppm	mg/m ³	
1,2,4-trimethylbenzene			25	125	
1,3,5-trimethylbenzene			25	125	
Methanol	250	333	200	266	*

For Key to entries in 'Comments' column see Section 16

Personal Protection

A work place assessment should be carried out to ensure that the PPE mentioned below provides the level of protection required.

Respiratory Protection

If workers are exposed to concentrations above the exposure limit they must use the appropriate, certified respirators. For maximum protection when spraying this product it is recommended that a multi layer combination type filter, such as ABEK1, is used. In confined spaces use compressed air or fresh air respiratory equipment.

Eye Protection

Wear safety eyewear, e.g. safety spectacles, goggles or visors to protect against the splash of liquids. Eyewear should comply with British Standard 2092.

Hand Protection

For maximum protection a multi layer laminate glove, such as 4H, should be worn. The penetration time for these gloves will vary according to the raw materials present in this product.

Skin Protection

Overalls which cover the body, arms and legs should be worn. Skin should not be exposed. Barrier creams may help to protect areas which are difficult to cover such as the face and neck. They should however not be applied once exposure has occurred. Petroleum jelly based types such as Vaseline should not be used. All parts of the body should be washed after contact.



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9. Physical and chemical properties

Physical State	Liquid
Flash Point (deg C)	33
Viscosity (cSt)	-
Specific Gravity	1.090
Vapour Density	Heavier than air.
Lower Explosive Limit	0.8
Solubility in Water	Immiscible
R.A.Q. to ventilate to 10% of the LEL (m ³ /l)	77

10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7). When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide, carbon dioxide, oxides of nitrogen and smoke.

Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid possible exothermic reactions.

11. Toxicological information

There are no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See Sections 2 and 15 for details.

Exposure to solvent vapour concentrations from the component solvents in excess of the stated occupational exposure limits may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms include headache, nausea, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in dryness, irritation and possible non-allergic contact dermatitis. Solvents may also be absorbed through the skin. Splashes of liquid in the eyes may cause irritation and soreness with possible reversible damage.



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12. Ecological information

There are no data available on the product itself.

The product should not be allowed to enter drains or water courses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See Sections 2 and 15 for details

13. Disposal considerations

Do not allow into drains or water courses. Wastes and emptied containers should be disposed of in accordance with regulations made under the Control of Pollution Act and the Environmental Protection Act.

Using information provided in this data sheet advice should be obtained from the Waste Regulation Authority, whether the special waste regulations apply.

The European Waste Catalogue Classification of this product, when disposed of as waste is 08 01 11 Waste paint and varnish containing organic solvents or other dangerous substances. If mixed with other wastes this code may no longer apply and the appropriate code should be assigned. For further information contact your local waste authority.

14. Transport information

Transport only in accordance with the following regulations:

ADR/RID UN1263 Paint, 3, III

IMDG	Class	3	Subsidiary Class
	Proper Shipping Name	PAINT	
	UN No	1263	
	Ems	F-E,S-E	
	Packaging Group	III	
	Marine Pollutant	Yes	

ICAO/IATA	Shipping Name	PAINT	
	Class	3	Subsidiary Class
	UN No	1263	
	Packaging Group	III	



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15. Regulatory information

Symbol(s)

Dangerous for the environment

Contains;

R. Phrases;

Flammable.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S. Phrases;

Do not breathe vapour/spray.

Avoid contact with skin.

Wear eye/face protection.

Use only in well ventilated areas.

P. Phrases;



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16. Other information

FOR PROFESSIONAL USE ONLY IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Safety Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

The information in this Health & Safety Data Sheet is required pursuant to EC Regulation 1907(2006) and the Chemicals (Hazard Information & Packaging for Supply) Regulations 2009.

Key to 'Comments' column in Section 8.

- (+) There is a risk of absorption through unbroken skin.
- (C) Capable of causing cancer and/or heritable genetic damage
- (R) Suppliers recommended limit
- (S) Capable of causing occupational asthma

The full text of the R phrases appearing in section 3 is:

R10 Flammable.

R11 Highly flammable.

R20 Harmful by inhalation.

R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.

R36/37/38 Irritating to eyes, respiratory system and skin.

R36/38 Irritating to eyes and skin.

R37 Irritating to respiratory system.

R38 Irritating to skin.

R39/23/24/25 Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

R51-53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R65 Harmful: May cause lung damage if swallowed.

Registered in England Company No. 63604. Registered office 26th Floor, Portland House, Bressenden Place, London, SW1E 5BG

and all product names mentioned in this publication are trademarks of, or licensed to, Akzo Nobel.



Your attention is drawn to the disclaimer on the Product Data Sheet which with this Safety Data Sheet and the package labelling comprise an integral information system about this product. Copies of the Product Data Sheet are available from International Paint on request or from our Internet sites : www.yachtpaint.com , www.international-marine.com, www.international-pc.com

MSDS for XA 278

	<h1 style="margin: 0;">Material Safety Data Sheet</h1>
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Protective Clothing	General Hazard	DOT
   	Class 3: Flammable liquid. -	

Section 1. Product identification and uses

Product Name and/or Code : HEMPASIL XA278
XA27859151

Company name and address : HEMPEL (USA), Inc.
600 Conroe Park North Drive
Conroe, Texas 77303
Toll free: (800) 678-6641, if outside area codes 713, 281, 409, 936
Regular phone number: (936) 523-6000

Product Type : fouling release coating (base for 2-component product)

Ready for use mixture : XA277 = XA278 18.1 vol / XA279 1.9 vol

TSCA : **Unless otherwise noted, all ingredients are TSCA listed.**

Date of issue : 3/1/2011.

Date of Previous Issue : No previous validation.

Section 2. Hazards identification

Physical state : Liquid.

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Emergency treatment : **WARNING!**
FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.
Flammable liquid. May be harmful if absorbed through skin. Severely irritating to eyes. Moderately irritating to the skin. Keep away from heat, sparks and flame. Do not get in eyes. Avoid breathing vapor or mist. Avoid contact with skin and clothing. Contains material that may cause target organ damage, based on animal data. Use only with adequate ventilation. Keep container tightly closed and sealed until ready for use. Wash thoroughly after handling.

Potential acute health effects

Eyes : Severely irritating to eyes. Risk of serious damage to eyes.

Skin : Harmful in contact with skin. Moderately irritating to the skin.

Potential chronic health effects (for component ingredients) : See Section 11 for more detailed information on health effects and symptoms.

Medical conditions aggravated by over-exposure : Pre-existing disorders involving any target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

Section 3. Composition/information on ingredients

Product/ingredient name	CAS #	%	Occupational exposure limits

HEMPASIL XA278

xylene	1330-20-7	12.5 - 15	ACGIH TLV (United States, 2/2010). STEL: 651 mg/m ³ 15 minute(s). STEL: 150 ppm 15 minute(s). TWA: 434 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s). OSHA PEL (United States, 6/2010). TWA: 435 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s).
ethylbenzene	100-41-4	1 - 3	ACGIH TLV (United States, 2/2010). STEL: 125 ppm 15 minute(s). TWA: 100 ppm 8 hour(s). NIOSH REL (United States, 6/2009). STEL: 545 mg/m ³ 15 minute(s). STEL: 125 ppm 15 minute(s). TWA: 435 mg/m ³ 10 hour(s). TWA: 100 ppm 10 hour(s). OSHA PEL (United States, 6/2010). TWA: 435 mg/m ³ 8 hour(s). TWA: 100 ppm 8 hour(s).
modified polysiloxane		1 - 3	

Notes

See toxicological information (Section 11)

Section 4. First aid measures

General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Give nothing by mouth. If unconscious, place in recovery position and get medical attention immediately.
Eye Contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. In all cases of doubt, or when symptoms persist, seek medical attention.
Skin Contact	: Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do NOT use solvents or thinners.
Ingestion	: If swallowed, seek medical advice immediately and show this document. Keep person warm and at rest. Do NOT induce vomiting unless directed to do so by medical personnel. Lower the head so that the vomit will not reenter the mouth and throat.
Notes to physician	: If gasses have been inhaled, from the decomposition of the product, symptoms may be delayed.

Section 5. Fire-fighting measures

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Flash point	: Closed cup: 28°C (82.4°F)
Fire-fighting media and instructions	: Recommended: alcohol resistant foam, CO ₂ , powders, water spray. Not to be used: waterjet. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
Fire Degradation Products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides

Date of issue

: 3/1/2011.

Page: 2/7

Section 6. Accidental release measures

Avoid all direct contact with the spilled material. Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth, and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Clean preferably with a detergent; avoid use of solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulation.

Section 7. Handling and storage

Handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used. Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

Storage

Store in accordance with local regulations for flammable liquids. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

Section 8. Exposure controls/personal protection

Engineering measures	: Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.
Hygiene measures	: Wash hands, forearms, and face thoroughly after handling the product and before eating, smoking, using lavatory, and at the end of day.
TLV	: Occupational Exposure Limit(s), if available, are listed in section 3
Personal protective equipment	
General	: Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.
Respiratory system	: If working areas have insufficient ventilation, wear half or totally covering mask equipped with gas filter of type Organic Vapor, when grinding use particle filter of type P95, P99 or P100. When spraying use a combined filter (organic vapor / HEPA or organic vapor / P100 type). Be sure to use approved/certified respirator or equivalent. Always wear an air-fed respirator when spraying in a continuous and prolonged work situation (e.g. hood with supply of fresh or compressed air or a full face, powered air purifying filter).
Skin and body	: Wear suitable protective clothing. Always wear protective clothing when spraying.
Hands	: Wear suitable gloves. For prolonged or repeated handling, use gloves. Barrier creams may help to protect the exposed areas of the skin, but should not be applied once exposure has occurred. Barrier creams may not be used under or instead of gloves. Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type.
Eyes	: Use safety eyewear designed to protect against splash of liquids.
Protective clothing (pictograms)	: 

Note: Application of paint products by spraying requires additional safety precautions: Full body suit, Full face respirator with air supplied.

Section 9. Physical and chemical properties

Physical state	: Liquid.
Density	: 1.03 g/cm ³
Solubility	: Insoluble in the following materials: cold water and hot water.
% Solvent by Weight	: Weighted average: 15 %
% Water by Weight	: Weighted average: 0 %
VOC Content	: Weighted average: 159 g/l
TOC Content	: Weighted average: 1.2 lbs/US gallon (144 g/l)

Section 10. Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see section 7).
Hazardous decomp. products	: Decomposition products may include the following materials: carbon oxides nitrogen oxides metal oxide/oxides
Products of degradation	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Reactivity	: Highly reactive or incompatible with the following materials: oxidizing materials. Reactive or incompatible with the following materials: reducing materials.

Section 11. Toxicological information

Effects and symptoms

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

Acute toxicity

Product/ingredient name	Result	Dose	Species
ethylbenzene	LD50 Dermal	>5000 mg/kg	Rabbit
	LD50 Dermal	17800 uL/kg	Rabbit
	LD50 Oral	3500 mg/kg	Rat
	TDLo Dermal	0.08 mL/kg	Rat
	LC50 Inhalation Vapor	55000 mg/m ³	Rat
xylene	LD50 Dermal	>1700 mg/kg	Rabbit
	LD50 Oral	4300 mg/kg	Rat
	LC50 Inhalation Gas.	5000 ppm	Rat

Specific effects

Carcinogen Classification

Product/ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
xylene	A4	3	-	None.	-	-
ethylbenzene	A3	2B	-	None.	-	-

Section 12. Ecological information

The product must not be drained into water courses or drainage system.

Product/ingredient name	Result	Species	Exposure

HEMPASIL XA278
ethylbenzene

Acute EC50 6530 - 9460 ug/L Fresh water	Crustaceans - Artemia sp. - Nauplii	48 hours
Acute EC50 2930 - 4400 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
Acute LC50 14000 ug/L Fresh water	Fish - Oncorhynchus mykiss - 2.4 g	96 hours
Acute LC50 13900 - 17200 ug/L Fresh water	Daphnia - Daphnia magna - Neonate - <=24 hours	48 hours
Acute LC50 12100 ug/L Fresh water	Fish - Pimephales promelas - 34 days	96 hours
Acute LC50 11900 ug/L Fresh water	Fish - Pimephales promelas - 30 days - 0.079 g	96 hours
Acute LC50 >5200 ug/L Marine water	Crustaceans - Americamysis bahia - <24 hours	48 hours
Chronic NOEC 6800 ug/L Fresh water	Daphnia - Daphnia magna - <=24 hours	48 hours
Chronic NOEC 3300 ug/L Marine water	Fish - Menidia menidia	96 hours
Acute LC50 14400 ug/L Fresh water	Fish - Lepomis macrochirus - 1.1 g	96 hours
Acute LC50 8500 ug/L Marine water	Crustaceans - Palaemonetes pugio	48 hours
Acute LC50 8200 - 10032 ug/L Fresh water	Fish - Oncorhynchus mykiss - 0.6 g	96 hours

Section 13. Disposal considerations

Waste disposal

The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7 and Section 8 for additional handling information and protection of employees.

Section 14. Transport information

Transport may take place according to national regulation or DOT for transport by road and by train, IMDG for transport by sea. Air shipment: Refer to specific Dangerous Goods Transport requirements under 49CFR, ICAO and IATA.

	UN-no.	Proper shipping name	Class	PG*	Label	Additional information
DOT Class.	UN1263	PAINT	3	III		- ERG Not available.
TDG Class.	UN1263	PAINT	3	III		-
Mexico Class.	UN1263	PAINT	3	III		-

HEMPASIL XA278

IMDG UN1263 PAINT
Class

3 III



Emergency schedules
(Ems)
F-E, S-E

PG* : Packing group

Section 15. Regulatory information

HCS Classification : Flammable liquid.
Irritating material
Target organ effects

U.S. Federal regulations : All components are listed or exempted.
TSCA 8(a) PAIR: polydimethylsiloxane silicone
TSCA 8(a) IUR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.
SARA 302/304/311/312 extremely hazardous substances: No products were found.
SARA 302/304 emergency planning and notification: No products were found.
SARA 302/304/311/312 hazardous chemicals: surface treated (trimethylsilyl) amorphous silicium dioxide; xylene; ethylbenzene; Iron oxide (Fe2O3)
SARA 311/312 MSDS distribution - chemical inventory - hazard identification: modified polysiloxane: Immediate (acute) health hazard; surface treated (trimethylsilyl) amorphous silicium dioxide: Immediate (acute) health hazard, Delayed (chronic) health hazard; xylene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; ethylbenzene: Fire hazard, Immediate (acute) health hazard, Delayed (chronic) health hazard; Iron oxide (Fe2O3): Delayed (chronic) health hazard
Clean Water Act (CWA) 307: ethylbenzene
Clean Water Act (CWA) 311: ethylbenzene; xylene
Clean Air Act (CAA) 112 accidental release prevention: No products were found.

SARA 313

	Product/ingredient name	CAS number	Concentration
Form R - Reporting requirements	xylene	1330-20-7	10 - 20
	ethylbenzene	100-41-4	1 - 3
Supplier notification	xylene	1330-20-7	10 - 20
	ethylbenzene	100-41-4	1 - 3

SARA 313 notifications must not be detached from the MSDS and any copying and redistribution of the MSDS shall include copying and redistribution of the notice attached to copies of the MSDS subsequently redistributed.

State regulations

Connecticut Carcinogen Reporting: None of the components are listed.
Connecticut Hazardous Material Survey: None of the components are listed.
Florida substances: None of the components are listed.
Illinois Chemical Safety Act: None of the components are listed.
Illinois Toxic Substances Disclosure to Employee Act: None of the components are listed.
Louisiana Reporting: None of the components are listed.
Louisiana Spill: None of the components are listed.
Massachusetts Spill: None of the components are listed.
Massachusetts Substances: The following components are listed: IRON OXIDE DUST; ETHYL BENZENE; XYLENE
Michigan Critical Material: None of the components are listed.
Minnesota Hazardous Substances: None of the components are listed.
New Jersey Hazardous Substances: The following components are listed: IRON OXIDE; FERRIC OXIDE; ETHYL BENZENE; BENZENE, ETHYL-; XYLENES; BENZENE, DIMETHYL-
New Jersey Spill: None of the components are listed.
New Jersey Toxic Catastrophe Prevention Act: None of the components are listed.
New York Acutely Hazardous Substances: The following components are listed: Ethylbenzene; Xylene (mixed)
New York Toxic Chemical Release Reporting: None of the components are listed.
Pennsylvania RTK Hazardous Substances: The following components are listed: IRON OXIDE (FE2O3); BENZENE, ETHYL-; BENZENE, DIMETHYL-
Rhode Island Hazardous Substances: None of the components are listed.

WARNING: This product contains a chemical known to the State of California to cause cancer.

Date of issue

: 3/1/2011.

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HEMPASIL XA278

California Prop. 65 PFF

Product/ingredient name

ethylbenzene

Cancer

Yes.

Reproductive

No.

No significant risk level

41 µg/day (ingestion)
54 µg/day (inhalation)

Maximum acceptable dosage level

No.

IMO Anti-fouling System Convention Compliant (AFS/CONF/26)

This product does not contain organotin compounds acting as biocides and complies with the International Convention on the Control of Harmful Anti-fouling Systems on Ships as adopted by IMO October 2001 (IMO document AFS/CONF/26)

Product Type : fouling release coating (base for 2-component product)

Manufacturer : HEMPEL Coatings (USA), Inc.

Product Name and/or Code : HEMPASIL XA278

XA27859151

Colour : Not available.

Note: This name is shown on the product container. All products in HEMPEL's containers carrying this name comply with the IMO Convention (AFS/CONF/26).

Active ingredients with CAS-Number. :

Section 16. Other information

Label requirements : FLAMMABLE LIQUID AND VAPOR. CAUSES EYE IRRITATION. MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. CONTAINS MATERIAL THAT MAY CAUSE TARGET ORGAN DAMAGE, BASED ON ANIMAL DATA.

Hazardous Material Information System (U.S.A.)



National Fire Protection Association (U.S.A.)



Remarks : Note: In USA, consult Code of Federal Regulations, Title 29, Labor, Parts 1910 and 1915 concerning occupational safety and health standards and regulations, as well as any other applicable Federal, State or local regulations that apply to safe practices in coating operations.

Warning! If you scrape, sand, or remove old paint, you may release lead dust. LEAD is TOXIC.

Emergency telephone number : For Transportation Emergencies, call CHEMTREC: (800) 424-9300. If outside USA/Canada, call: (703) 527-3887. For all other information call Hempel (USA), Inc. (936) 523-6000. Toll free: (800) 678-6641, if outside area codes 713, 281, 409, 936

Validation : Validated by DK - Ebbe Makhholm on 3/1/2011. Verified by DK - Ebbe Makhholm.

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

MSDS for BottomSpeed Topcoat



MATERIAL SAFETY DATA SHEET					
Product Name: BottomSpeed Topcoat Clear			Page: 1/6		
			Print Date: 5/2011		
1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING					
Product Name: BottomSpeed Topcoat Clear					
Application: Coating – Foul Release					
Coating Container Size: Gallon					
Emergency Telephone: 24 Hour Emergency Telephone CHEMTREC 1-800-424-9300					
2. HAZARDS IDENTIFICATION					
The product is classified:					
Physical and Chemical Hazards: Flammable. Vapors may form explosive mixtures with air.					
Human Health: Harmful by inhalation and in contact with skin. Irritating to skin					
3. COMPOSITION/INFORMATION ON INGREDIENTS					
Characterization: Silicone Coating					
Hazardous Ingredients:					
<u>%</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>Chemical Name:</u>	<u>Hazard Classification: Note:</u>	
1-5	1185-55-3	214-685-0	Trimethoxy (methyl)silane	F Xn	R11 R22
0.1-2	67-56-1	200-569-6	Methanol	F T	R11 R39/23/24/25 R23/24/25
0.1-2	27858-32-8	248-697-2	Diisopropoxytitanium bis(ethylacetoacetate)	 Xi Xi	R10 R38 R41
0.1-2		Exempt or not available	Methoxy and minofunctional silane	Xn Xi	R22 R36

bottomspeed.com

BottomSpeed				(2)	MSDS - TopCoat	
10-30	1330-20-7	215-535-7	Xylene		Xn	R20/21
					Xi	R38
						R10
1-5	68909-20-6	727-697-1	Trimethylated silica			
4. FIRST AID MEASURES						
<u>Inhalation:</u> Remove to fresh air						
<u>Skin Contact:</u> Immediately flush with water and wipe off, obtain medical attention						
<u>Eye Contact:</u> Flush with water						
<u>Ingestion:</u> Do not induce vomiting, obtain medical attention						
5. FIRE-FIGHTING MEASURES						
<u>Suitable Extinguishing Media:</u> On large fires use AFFF alcohol compatible foam or water spray (fog). On small fires use AFFF alcohol compatible foam, CO2 or water spray (fog). Water can be used to cool fire exposed containers. Most fire extinguishing media will cause hydrogen release. Thus, in poorly ventilated or confined spaces, the accumulation of hydrogen may result in flash fire or explosion if ignited. Applying foam may release flammable hydrogen gas that can be trapped under the foam.						
<u>Unsuitable Extinguishing Media:</u> Dry powder. Do not allow extinguishing medium to contact container contents.						
<u>Hazards:</u> Vapors may form explosive mixtures with air.						
<u>Protective Equipment:</u> A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.						
<u>Hazardous Combustion Products:</u> Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Hydrogen, nitrogen products;.						
6. ACCIDENTAL RELEASE MEASURES						
<u>Personal Precautions:</u> Wear protective equipment						
<u>Environmental Precautions:</u> Do not discharge into drains or watercourses						
<u>Methods For Cleaning Up:</u> Absorb spillage with absorbent material and place in a ventilated container						
7. HANDLING AND STORAGE						
<u>Safe Handling Advice:</u> Ventilation is recommended, avoid eye contact, product must not be sprayed, do not breathe spray or mist, do not ingest.						

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BottomSpeed	(3)	MSDS - TopCoat															
<p><u>Technical Measures:</u> Do not eat, drink or smoke when using the product</p> <p><u>Safe Storage:</u> Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container closed and store away from water or moisture. This product may evolve hydrogen on storage. Vapors may form explosive mixtures with air. Do not store with oxidizing agents.</p> <p><u>Unsuitable Packaging:</u> Do not store or use in glass containers.</p>																	
<p>8. EXPOSURE CONTROL/PERSONAL PROTECTION</p> <p><u>Engineering Measures:</u> Ventilation, refer to section 7</p> <p>Exposure controls for hazardous components</p> <table border="1"> <thead> <tr> <th><u>Name</u></th> <th><u>CAS-No.</u></th> <th><u>Exposure Limits</u></th> </tr> </thead> <tbody> <tr> <td>Trimethylated Silica</td> <td>68909-20-6</td> <td>5mg/m³ (OEL, 8h TWA) respirable dust; 10mg/m³ (OEL,8h TWA) total inhalable dust</td> </tr> <tr> <td>Trimethoxy (methyl) silane</td> <td>1185-55-3</td> <td>220ppm TWA, 250ppm STEL as methanol</td> </tr> <tr> <td>Methanol</td> <td>67-56-1</td> <td>250ppm STEL 220ppm TWA 333mg/m³ STEL 266mg/m³TWA</td> </tr> <tr> <td>Xylene</td> <td>1330-20-7</td> <td>150ppm STEL 100ppm TWA 662mg/m³ STEL 441mg/m³ TWA</td> </tr> </tbody> </table>			<u>Name</u>	<u>CAS-No.</u>	<u>Exposure Limits</u>	Trimethylated Silica	68909-20-6	5mg/m ³ (OEL, 8h TWA) respirable dust; 10mg/m ³ (OEL,8h TWA) total inhalable dust	Trimethoxy (methyl) silane	1185-55-3	220ppm TWA, 250ppm STEL as methanol	Methanol	67-56-1	250ppm STEL 220ppm TWA 333mg/m ³ STEL 266mg/m ³ TWA	Xylene	1330-20-7	150ppm STEL 100ppm TWA 662mg/m ³ STEL 441mg/m ³ TWA
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Methanol	67-56-1	250ppm STEL 220ppm TWA 333mg/m ³ STEL 266mg/m ³ TWA															
Xylene	1330-20-7	150ppm STEL 100ppm TWA 662mg/m ³ STEL 441mg/m ³ TWA															
<p>Personal Protection Equipment</p> <p><u>Respiratory Equipment:</u> Suitable respiratory protection should be worn in confined spaces or incase of inadequate Equipment: ventilation. A suitable respirator must be worn if during use an aerosol or mist is generated.</p> <p><u>Hand Protection:</u> Wear protective gloves, Nitrile gloves are recommended</p> <p><u>Eye Protection:</u> Tight fitting safety goggles or face shield should be used</p> <p><u>Skin Protection:</u> Wear impervious overalls if significant skin contact is likely to occur</p> <p><u>Hygiene Measures:</u> Exercise proper industrial hygiene practices. Wash after handling, especially before eating, smoking or drinking. Contaminated clothing should be immediately removed.</p> <p><u>Environmental Exposure Controls:</u> Per clause 6 & 12</p> <p><u>Other Information:</u> These precautions are for handling the product in normal conditions and application techniques. This product must not be sprayed during application.</p>																	

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Translucent Liquid

Odor: Solvent

Boiling Point: > 65°C

Flash Point: 23°C

Explosive Properties: No. Some hydrogen gas may be released. Hydrogen is flammable and can form explosive mixtures with air. Vapors may form explosive mixtures with air

Relative Density: 1

Viscosity: 400mpa at 25°C

Solubility: Insoluble in water, soluble in organic solvents

Oxidizing Properties: No

10. STABILITY AND REACTIVITY

Stability: Stable under normal usage conditions

Conditions/ Material to Avoid: Avoid heat, flames and other sources of ignition. Hydrogen is liberated on contact with water, alcohols, acidic or basic materials, many metals or metallic compounds and can form explosive mixtures in the air. Can react with strong oxidizing agents

Hazardous Decomposition Products: Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde. Hydrogen, Nitrogen products.

11. TOXICOLOGICAL INFORMATION

Inhalation: Harmful by inhalation of vapour. May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations unconsciousness

Skin Contact: Irritating. Harmful in contact with skin. May produce an allergic reaction. Repeated or prolonged contact may cause defatting of the skin leading to dermatitis

Eye Contact: May cause temporary discomfort

Ingestion: Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause digestive discomfort. Forms methanol and may cause serious injury to man at does > 200mg/kg

Specific Effects: This product contains powder hazardous by inhalation. This is not relevant to the current physical form of the product, which is not a respirable form. Product may emit formaldehyde vapor at temperatures above 180°C in the presence of air. Formaldehyde vapor is a suspected carcinogen, toxic by inhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected.

12. ECOLOGICAL INFORMATION

Mobility: Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded. This product hydrolyses in water or moist air, releasing methanol and organosilicons. This product contains volatile substances which may spread in the atmosphere.

Degradability: Silicone content, biologically not degradable.

Ecotoxicity: No adverse effects on aquatic organisms are predicted

Bioaccumulative Potential: No bioaccumulation predicted.

Other Effects:

13. DISPOSABLE CONSIDERATIONS

Waste From Residues: Dispose of in accordance with local regulations.

Contaminated Packaging: Dispose of in accordance with local regulations

14. TRANSPORT INFORMATIONSea (IMDG):

UN-Number: 1263

Proper Shipping Name: Paint

Class: 3

Packaging Group: III

EmS: F-E & S-E

Labels: Flammable liquid

Air (ICAO/IATA):

UN-Number: 1263

Proper Shipping Name: Paint

Class: 3

Packaging Group: III

Labels: Flammable liquid

Land (RID/ADR):

UN-Number: 1263

Proper Shipping Name: Paint

Class: 3

Packing Group: III

Labels: 3

15. REGULATORY INFORMATION

Warning Label – EEC Directive

Contains: Xylene

Symbols: Xn Harmful

R-Phrases: R10 Flammable
R20/21 Harmful by inhalation and in contact with skin
R38 Irritating to skin

S-Phrases: S9 Keep container in a well ventilated place
S16 Keep away from sources of ignition – no smoking
S23(S) Do not breathe spray
S24 Avoid contact with skin
S25 Avoid contact with eyes
S36/37 Wear suitable protective clothing and gloves
S51 Use only in well ventilated areas

National Regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002 (S.I 2002 No. 1689) with amendments. The Control of substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. EH40/2005, Workplace exposure limits 2005, with amendments The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242) The List of Wastes (England) Amendment) Regulations 2005. (SI 2005 No. 895)

16. OTHER INFORMATION

The information and instructions on this Safety Data Sheet are based on current technical knowledge as dated. This Safety Data Sheet does not represent a guarantee for the properties of the product.

Wording of risk phrases:

R10	Flammable
R11	Highly flammable
R22	Harmful if swallowed
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R36	Irritating to eyes
R38	Irritating to skin
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R41	Risk of serious damage to eyes

MSDS for BottomSpeed Sealer



MSDS

TC BaseCoat

Material Safety Data Sheet

Product Name: BottomSpeed TC BaseCoat

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Print Date: 5/2011

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name: BottomSpeed TC BaseCoat

Identification: Coating – Chlorinated Rubber

Coating Container Size: Gallon

Emergency Number: 24 Hour Emergency Telephone CHEMTREC 1-800-424-9300

2. HAZARDOUS IDENTIFICATION

This product is classified:

Physical and Chemical Hazards: Flammable. Vapors may form explosive mixture with air.

Human Health: Harmful by inhalation and in contact with skin. Irritating to skin.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Characterization: Chlorinated Rubber

Hazardous Ingredients:

<u>WT%</u>	<u>CAS-NO.:</u>	<u>CHEMICAL NAME</u>	<u>HAZARD CLASSIFICATION</u>	<u>FOOTNOTE</u>
5-20	CAS #14807-96-6	Talc (powder) ACGIH TLV: 2 mg/m3 TWA (resp) OSHA PEL: 20 mppcf TWA VAPOR PRESSURE:	ACGIH STEL: OSHA CEILING: LEL%:	OSHA PEAK:
5-20	CAS #14808-60-7	Crystalline Silica ACGIH TLV: 0.025 mg/m3 OSHA PEL: 10/(%SiO2+2) mg/m3 VAPOR PRESSURE: NA	ACGIH STEL: NE OSHA CEILING: NE LEL%: NA	Footnote: (2) OSHA PEAK: NE

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BottomSpeed		(2)	MSDS - TC BaseCoat
5-20	CAS #95-63-6 1,2,4 Trimethyl Benzene ACGIH TLV: 25 ppm TWA OSHA PEL: VAPOR PRESSURE:	ACGIH STEL: OSHA CEILING: LEL%:	Footnote: (1) OSHA PEAK:
5-20	CAS #64742-95-6 ACGIH TLV: 25 ppm TWA OSHA PEL: 25 ppm TWA VAPOR PRESSURE: 2.7mmHg20c	Aromatic 100 ACGIH STEL: OSHA CEILING: LEL%: 0.9	Footnote: (1) OSHA PEAK:
5-20	CAS #64742-48-9 ACGIH TLV: 100 ppm TWA OSHA PEL: 500 ppm TWA VAPOR PRESSURE: 2.7 mm@20c	Mineral Spirits ACGIH STEL: OSHA CEILING: LEL%:	Footnote: (1) OSHA PEAK:
1-5	CAS # Polychlorinated Alkanes ACGIH TLV: OSHA PEL: VAPOR PRESSURE:	ACGIH STEL: OSHA CEILING: LEL%:	OSHA PEAK:
1-5	CAS #1314-13-2 ACGIH TLV: OSHA PEL: VAPOR PRESSURE:	Zinc oxide, as Zn (fume) ACGIH STEL: OSHA CEILING: LEL%:	OSHA PEAK:
WARNING MESSAGES:			
(1) 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. Chronic exposure may cause damage to the central nervous system, respiratory system, lung, eye, skin, liver, gastrointestinal tract, spleen, kidneys, and blood.			
(2) International Agency for Research on Cancer (IARC) Monograph Volume 68 (1997) concludes that Crystalline Silica is "carcinogenic to humans (Group 1)" based on sufficient evidence in humans and experimental animals.			
(3) See Section IX for reportable Hazardous Air Pollutants.			
4. PHYSICAL DATA			
BOILING RANGE: 277-385° F			
EVAPORATION RATE: * slower than ether *			
PERCENT VOLATILE BY VOLUME: 61.90-63.77%			
WEIGHT PER GALLON: 11.08-11.58 LBS			
VAPOR DENSITY: * heavier than air *			
ACTUAL VOC (lb/gal): 4.32-4.44			
EPA VOC (lb/gal): 4.32-4.44 EPA VOC (g/L): 518.91-532.09			

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5. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 39° C 102° F LEL: Refer to Section 3

FLAMMABILITY CLASSIFICATION: CLASS II

HAZARD CLASSIFICATION: *Combustible Liquid*

EXTINGUISHING MEDIA: *carbon dioxide, dry chemical, or fire foam*

UNUSUAL FIRE AND EXPLOSION HAZARDS: keep away from heat, sparks, and flame.

SPECIAL FIRE FIGHTING PROCEDURES: Water is unsuitable, but may be used to cool closed containers.

6. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: See Section 3

EFFECTS OF OVEREXPOSURE:

ACUTE - High vapor concentrations are irritating to the eyes and the respiratory tract, and may cause headaches, dizziness, anesthesia, drowsiness, unconsciousness, and other central nervous system effects, including death. Product has a low order of acute oral and dermal toxicity, but minute amounts aspirated into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury and possibly death.

CHRONIC - This product contains crystalline silica which is classified as carcinogenic to humans, Group 1, by the International Agency for Research on Cancer (IARC), based on sufficient evidence of carcinogenicity in humans. Crystalline silica may also cause delayed respiratory disease (silicosis) if inhaled over a prolonged period of time. Avoid breathing dust. Use a NIOSH/MSHA approved respirator where TLV for crystalline silica may be exceeded.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: consult physician

PRIMARY ROUTE(S) OF ENTRY: Skin and Inhalation

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove to fresh air. Restore breathing. Treat symptomatically. Consult a physician.

EYES: Flush immediately with large amounts of water for at least 15 minutes. Talk to a physician for medical treatment.

SKIN: Wipe off with towel. Wash with soap and water. Remove contaminated clothing.

INGESTION: If swallowed, call a physician immediately. Remove stomach contents by gastric suction or induce vomiting only as directed by a medical personnel. Never give anything by mouth to an unconscious person.

7. REACTIVITY DATA

STABILITY: *stable*

HAZARDOUS POLYMERIZATION: *will not occur*

INCOMPATIBILITY: * unknown *

HAZARDOUS DECOMPOSITION PRODUCTS: Fire, burning and welding may generate carbon monoxide.

CONDITIONS TO AVOID: Fire, burning, and welding.

8. SPILL OR LEAK PROCEDURESSTEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

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

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

9. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: In confined areas of poor ventilation, use chemical cartridge respirator or self-contained breathing apparatus.

VENTILATION: Provide general dilution or local exhaust ventilation in volume and pattern to keep TLV and LEL of most hazardous ingredient in Section II, below acceptable limit.

PROTECTIVE GLOVES: None required except for prolonged contact.

EYE PROTECTION: Splash proof eye goggles. In emergency situations, use eye goggles with a full face shield.

OTHER PROTECTIVE EQUIPMENT: *none*

HYGIENIC PRACTICES: See Section 6

10. SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store near heat, sparks, or flame.

OTHER PRECAUTIONS: * none *

This product contains no reportable Hazardous Air Pollutants.

MSDS for Intersleek 900 Topcoat

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MATERIAL SAFETY DATA SHEET
 INTERSLEEK 970 WHITE PART A

Sales Order: (SalesOrd)



International Paint LLC
 6001 Antoine Drive
 Houston, Texas 77091

MSDS Revision No: A0-2
 MSDS Revision Date: 11/27/2007

EMERGENCY NUMBERS:
 (800) 424-9300 CHEMTREC (USA)
 (703) 527-3887 CHEMTREC (Intl)
 (800) 854-6813 Poison Control Center
 CUSTOMER SERVICE: (Non-Emergency)
 (800) 589-1267 International Paint
 (800) 631-7481 Interlux

1. GENERAL INFORMATION

Product Identity: INTERSLEEK 970 WHITE PART A

Bulk Sales Reference No: FXA970

IMPORTANT: Read this MSDS before handling or disposing of this product, and provide this information to the employee, customers, and users of this product. PLEASE NOTE THE MSDS REVISION NUMBER AT THE TOP OF THIS PAGE. If the MSDS Revision Number posted at the top of this page does not match the MSDS Revision Number on the product label, please contact Customer Service at the phone number included above for the correct MSDS. This product is covered by the OSHA Hazard Communication Standard and this document has been prepared in accordance with requirements of this standard.

NOTICE: OSHA hazardous chemicals are listed in Section 2 if present at 1% or more. Carcinogens and extraordinary/special hazardous chemicals are listed in Section 2 if present at .1% or more. Additional regulatory information for specific chemical categories is included in Section 15.

2. HAZARDOUS INGREDIENT INFORMATION

CAS No.	Ingredient Name & %	Source	Exposure Data
000100-41-4	Ethyl benzene 1.0 - 10% by Weight	OSHA:	125 ppm STEL; 545 mg/m3 STEL
		ACGIH:	100 ppm TWA; 125 ppm STEL
		NIOSH:	100 ppm TWA; 435 mg/m3 TWA; 125 ppm STEL; 545 mg/m3 STEL
		Supplier:	No Established Limit
		OHSA, CAN:	100 ppm TWAEV; 435 mg/m3 TWAEV; 125 ppm STEV; 540 mg/m3 STEV
		Mexico:	100 ppm TWA; 435 mg/m3 TWA; 125 ppm STEL; 545 mg/m3 STEL
		Brazil:	78 ppm TWA; 340 mg/m3 TWA
		Source	Health Data
		NIOSH:	Eye skin
		Source	Carcinogen Data
OSHA:	Select Carcinogen: No		
NTP:	Known Carcinogen: No; Suspected Carcinogen: No		
IARC:	Group 1: No; Group 2A: No; Group 2b: Yes; Group 3: No; Group 4: No		

CAS No.	Ingredient Name & %	Source	Exposure Data
001330-20-7	Xylenes (o-, m-, p- isomers) 1.0 - 10% by Weight	OSHA:	150 ppm STEL; 655 mg/m3 STEL
		ACGIH:	100 ppm TWA; 150 ppm STEL
		NIOSH:	No Established Limit
		Supplier:	No Established Limit
		OHSA, CAN:	100 ppm TWAEV; 435 mg/m3 TWAEV; 150 ppm STEV; 650 mg/m3 STEV
		Mexico:	100 ppm TWA; 435 mg/m3 TWA; 150 ppm STEL; 655 mg/m3 STEL
		Brazil:	78 ppm TWA; 340 mg/m3 TWA
		Source	Health Data
		NIOSH:	Central nervous system depressant; respiratory and eye irritation
		Source	Carcinogen Data
OSHA:	Select Carcinogen: No		

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		NTP:	Known Carcinogen: No; Suspected Carcinogen: No
		IARC:	Group 1: No; Group 2A: No; Group 2b: No; Group 3: Yes; Group 4: No
CAS No.	Ingredient Name & %	Source	Exposure Data
013463-67-7	Titanium dioxide 10 – 25% by Weight	OSHA:	No Established Limit
		ACGIH:	10 mg/m3 TWA
		NIOSH:	No Established Limit
		Supplier:	No Established Limit
		OHSA, CAN:	10 mg/m3 TWAEV (total dust)
		Mexico:	10 mg/m3 TWA (nuisance particulate)20 mg/m3 STEL
		Brazil:	No Established Limit
		Source	Health Data
		NIOSH:	Lung tumors in animals
		Source	Carcinogen Data
		OSHA:	Select Carcinogen: No
		NTP:	Known Carcinogen: No; Suspected Carcinogen: No
		IARC:	Group 1: No; Group 2A: No; Group 2b: No; Group 3: Yes; Group 4: No

3. HAZARD IDENTIFICATION

Overview:	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. Avoid contact with eyes, skin and clothing.		
Inhalation:	Harmful if inhaled. Causes nose and throat irritation. Vapors may affect the brain or nervous system causing dizziness, headache or nausea.		
Eyes:	Causes severe eye irritation. Do not get in eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 2 of this document. Depending on the site-specific condition of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.		
Skin:	Causes skin irritation. May be harmful if absorbed through the skin.		
Ingestion:	Harmful if swallowed. May cause abdominal pain, nausea, vomiting, diarrhea, or drowsiness.		
Chronic Effects:	Contains an ingredient which can cause organ damage (See Section 2 and Section 15 for each ingredient). Possible cancer hazard. Contains an ingredient which may cause cancer based on animal data (See Section 2 and Section 15 for each ingredient). Risk of cancer depends on duration and level of exposure.		
HMIS Rating:	Health: 2*	Flammability: 2	Reactivity: 0

4. FIRST AID MEASURES

General:	Remove contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Inhalation:	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
Eyes:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.
Skin:	In case of contact, immediately flush skin with soap and plenty of water. Get medical attention immediately.
Ingestion:	If swallowed, immediately contact Poison Control Center at 1-800-854-6813. DO NOT induce vomiting unless instructed to do so by medical personnel. Never give anything by mouth to an unconscious person.

5. PROTECTIVE EQUIPMENT AND CONTROL MEASURES

Respiratory:	Select equipment to provide protection from the ingredients listed in Section 2 of this document. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates dust, vapor, or mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH approved) during and after application. Follow respirator manufacturer's directions for respirator use. FOR USERS OF 3M RESPIRATORY PROTECTION ONLY: For information and assistance on 3M occupational health and safety products, call OH&ESD Technical Service toll free in U.S.A. 1-800-243-4630, in Canada call 1-800-267-4414. Please do not contact these numbers regarding other manufacturer's respiratory protection products. 3M does not endorse the
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	accuracy of the information contained in this Material Safety Data Sheet.
Eyes:	Do not get in eyes. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 2 of this document. Depending on the site-specific condition of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use. Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 2 of this document. Depending on the site-specific conditions of use, safety glasses, chemical goggles, and/or head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Skin/Hand:	Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 2 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use.
Engineering Controls:	Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.
Other Work Practices:	Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Use good personal hygiene practices. Wash hands before eating, drinking, using toilet facilities, etc. Promptly remove soiled clothing and wash clothing thoroughly before reuse. Shower after work using plenty of soap and water.

6. FIRE AND EXPLOSION INFORMATION

Flash Point:	F: 100 C: 38
Lower Explosive Limit (LEL):	1 (%vol in air) at Normal Atmospheric Temp and Pressure
Fire and Explosion Hazards:	Protective equipment should be selected to provide protection from exposure to the chemicals listed in Section 2 of this document. Depending on the site-specific conditions of use, protective gloves, apron, boots, head and face protection may be required to prevent contact. The equipment must be thoroughly cleaned, or discarded after each use. FLAMMABLE/COMBUSTIBLE MATERIALS: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks) creating a vapor explosion hazard. Runoff to sewers may create fire or explosion hazard. Containers may explode when heated. CAUTION: This product has a very low flashpoint. Use of water spray when fighting fire may be inefficient. SMALL FIRES: Use dry chemical, CO ₂ , water spray or alcohol-resistant foam. LARGE FIRES: Use water spray, fog, or alcohol-resistant foam. Do not use straight streams. Move containers from fire area if you can do so without risk. Runoff from fire control may cause pollution. Dike fire control water for later disposal. Do not scatter the material. Also Reference Emergency Response Guide Number: 127
Fire Fighting Procedures:	

7. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid
pH:	No Established Limit
Specific Gravity:	1.134
Boiling Point (F):	279
Vapor Density:	Heavier than air
VOC Content (lbs):	Refer to the Technical Data Sheet for this product.
Evaporation Rate:	Slower than ether

8. STABILITY AND REACTIVITY DATA

General:	This product is stable and hazardous polymerization will not occur. Not sensitive to mechanical impact. Excessive heat and fumes generation can occur if improperly handled.
Incompatible Materials:	Strong oxidizing agents.
Hazardous Decomposition:	May produce hazardous fumes when heated to decomposition as in welding. Fumes may produce Carbon Dioxide and Carbon Monoxide.

9. HANDLING AND STORAGE

Storage Temperature:	Store between 40–100F (4–38C).
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Handling and Storage Precautions: Keep away from heat, sparks and flame. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone. Vapors may cause flash fire or ignite explosively. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Do not get in eyes, on skin or clothing. Close container after each use. Wash thoroughly after handling.

10. TOXICOLOGICAL DATA

General: 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. No additional information provided for this product. See Section 2 for chemical specific data.

11. ECOLOGICAL DATA

General: No additional information provided for this product. See Section 2 for chemical specific data.

12. ACCIDENTAL RELEASE MEASURES

Spill Response Procedures: ELIMINATE ALL IGNITION SOURCES (no smoking, flares, sparks or flames in immediate area). Use only non-sparking equipment to handle spilled material and absorbent. Do not touch or walk through spilled material. Stop leak if you can do so without risk. Prevent entry into waterways, sewers, basements or confined areas. A vapor suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use non-sparking tools to collect absorbed material. CALL CHEMTREC at (800)-424-9300 for emergency response. Isolate spill or leak area immediately for at least 25 to 50 meters (80 to 160 feet) in all directions. Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. LARGE SPILLS: Consider initial downwind evacuation for at least 300 meters (1000 feet).
 Public Safety: Also, Reference Emergency Response Guide Number: 127

13. DISPOSAL CONSIDERATION

Waste Disposal: Dispose of in accordance with local, state and federal regulations. (Also reference RCRA information in Section 15 if listed).

14. TRANSPORTATION INFORMATION

DOT (Domestic Surface Transportation)		IMO / IMDG (Ocean Transportation)	
DOT Proper Shipping Name:	PAINT	IMDG Proper Shipping Name:	PAINT
DOT Hazard Class:	3	IMDG Hazard Class:	3.3 - High flashpoint flammable liquids
UN / NA Number:	UN 1263	UN Number:	UN 1263
DOT Packing Group:	III	IMDG Packing Group:	III
CERCLA/DOT RQ:	143 gal. / 1350 lbs.	System Reference Code:	2

15. REGULATORY INFORMATION

Regulatory Overview: The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented. All ingredients of this product are listed on the TSCA (Toxic Substance Control Act) Inventory or are not required to be listed on the TSCA Inventory.
Note: Any chemical ingredients listed in Section 15, that do not also appear in Section 2, are contained in the product at a concentration below the applicable OSHA threshold level of 1% or 0.1%.
 WHMIS Classification: No Established Limit
 Regulatory List: Product Ingredients on List

DOT Marine Pollutants (10%):
 (No Product Ingredients Listed)
 DOT Severe Marine Pollutants (1%):
 (No Product Ingredients Listed)
 EPCRA 311/312 Chemicals and RQs (>.1%):
 (No Product Ingredients Listed)
 EPCRA 302 Extremely Hazardous (>.1%):
 (No Product Ingredients Listed)
 EPCRA 313 Toxic Chemicals (>.1%):
 001344-28-1 Aluminum oxide
 000100-41-4 Ethyl benzene
 001330-20-7 Xylenes (o-, m-, p- isomers)
 Mass RTK Substances (>1%):
 000100-41-4 Ethyl benzene
 013463-67-7 Titanium dioxide
 001330-20-7 Xylenes (o-, m-, p- isomers)
 Mass Extraordinarily Haz Sub (>.01%):
 (No Product Ingredients Listed)
 Penn RTK Substances (>1%):
 000100-41-4 Ethyl benzene
 013463-67-7 Titanium dioxide
 001330-20-7 Xylenes (o-, m-, p- isomers)
 Penn Special Hazardous Substances (>.01%):
 (No Product Ingredients Listed)
 Rhode Island Hazardous Substances (>.1%):
 (No Product Ingredients Listed)
 RCRA Status (>.01%):
 (No Product Ingredients Listed)
 N.J. RTK Substances (>1%):
 (No Product Ingredients Listed)
 N.J. Special Hazardous Substances (>.01%):
 000100-41-4 Ethyl benzene
 001330-20-7 Xylenes (o-, m-, p- isomers)
 N.J. Env. Hazardous Substances (>.1%):
 001344-28-1 Aluminum oxide
 000100-41-4 Ethyl benzene
 001330-20-7 Xylenes (o-, m-, p- isomers)
 Proposition 65 - Carcinogens (>0%):
 000100-41-4 Ethyl benzene
 014808-60-7 Quartz
 Proposition 65 - Female Repro Toxins (>0%):
 (No Product Ingredients Listed)
 Proposition 65 - Male Repro Toxins (>0%):
 (No Product Ingredients Listed)
 Proposition 65 - Developmental Toxins (>0%):
 (No Product Ingredients Listed)

Listed)

16. OTHER INFORMATION

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.

Head Office

International Paint, LLC, 6001 Antoine Drive, Houston, Texas 77091. <http://www.international-pc.com> or <http://www.international-marine.com>

End Of Document

MSDS for Intersleek Veridian Sealer

PRODUCT DESCRIPTION

Veridian represents a breakthrough in coatings technology, providing a two part (Tie Coat and Top Coat) biocide-free fouling release system.

- * One-pack acrylic sealer/tie coat
- * Easy to apply, one coat, over existing antifouling; although best performance is obtained when old antifouling is removed
- * Provides substrate for application of Interselek 970 over aged antifouling

PRODUCT INFORMATION

Colour	YMA156-Grey, YMA157-Clear
Finish	Semi-gloss
Specific Gravity	1.129
Volume Solids	61%
Typical Shelf Life	2 yrs
Unit Size	375 ml 2.5 Lt

DRYING/OVERCOATING INFORMATION

		Drying							
		5°C	15°C	23°C	35°C				
Touch Dry [ISO]		5hrs	3hrs	2hrs	1.5hrs				
		Overcoating							
		Substrate Temperature							
		10°C		15°C		23°C		35°C	
		Min	Max	Min	Max	Min	Max	Min	Max
Overcoated By	Interselek 970	4 hrs	7 days	3 hrs	7 days	3 hrs	7 days	2 hrs	7 days

Note: when overcoating Veridian tie coat, it is imperative that Interselek 970 is only applied by brush / roller. In order to achieve an ultra smooth finish, the Interselek 970 should be tipped off using a thin blade or spatula immediately after application of the Interselek 970

APPLICATION AND USE

Preparation

PREVIOUSLY ANTIFOULED SURFACE:
In Good Condition: Rinse with fresh water and allow to dry. Sand with 80 grade (grit) paper. If old antifouling is incompatible or unknown, seal with Primocon.
In Poor Condition: Use Interstrip to remove all traces of antifouling.
Removal of Veridian Tie Coat from metal surfaces can be achieved by using standard DIY paint strippers (propellers only). : This type of paint stripper is not suitable for use on fiberglass.
BARE ALUMINIUM: Surface preparation is critical. Blast or use an angle grinder to achieve a good key. Wipe surface clean with Thinners No. 3 to remove surface contaminants. Apply the Tie Coat.
PRIMING: All preparation for bare substrates is covered on the appropriate primer datasheet.
BARE GRP: Gelshield 200 for osmosis protection, or Primocon.
STEEL/IRON (not stainless steel): Prime with Interprotect or Primocon.
LEAD: Etch Primer followed by Interprotect or Primocon.
WOOD: Preserve, if required, with Intertox.
ALUMINIUM/ALLOY: Protect the hull by using Interprotect or Etch Primer followed by Primocon. Follow the Interprotect overcoating times specified for antifoulings.

YACHT BUSINESS DEVELOPMENT DRAFT TECHNICAL DATASHEET

Method	Apply 1 coat only at a minimum wet film thickness of 125 microns. Complete coverage of the Tie Coat over the substrate is critical to ensure compatibility.
Hints	<p>Mixing Stir well before use.</p> <p>Thinner YTA910, YTA085 Thinners No.3 Thinner 910 (for spray application)</p> <p>Roller High density foam roller is recommended for best application. Thin Veridian Tie Coat as necessary with Thinners No. 3 (10% max) for ease of application.</p> <p>Other For HVLP spray application: Reduce viscosity to 20 seconds, BS4 flow cup with Thinner 910. Pressure: Wall - 80 psi; Cup - 8 psi; Tip - 5 psi. Tip Size: 1.0 mm. The recommended film thickness must be followed as applying the coating too thinly will result in a weakened link to the foul release Topcoat. It is important to follow the overcoating interval recommendations.</p>
Some Important Points	Do not use in high wind. Product temperature should be minimum 10°C/ 50°F and maximum 35°C/95°F. Ambient temperature should be minimum 10°C/ 50°F and maximum 35°C/95°F. Substrate temperature should be minimum 10°C/ 50°F and maximum 35°C/95°F.
Compatibility/Substrates	Do not apply over existing VC 17m antifoulings. The Veridian Scheme is not suitable for use on bronze or mixed alloy propellers, or on stainless steel.
Number of Coats	1 only
Coverage	(Theoretical) - 7.20 (m ² /lt)
Recommended DFT	
Recommended WFT	138 microns wet WFT = 125-150 microns.
Application Methods	Brush, HVLP Spray, Roller

TRANSPORTATION, STORAGE AND SAFETY INFORMATION

Storage	<p>GENERAL INFORMATION: Exposure to air and extremes of temperature should be avoided. For the full shelf life of Veridian Tie Coat to be realised ensure that between use the container is firmly closed and the temperature is between 5°C/40°F and 35°C/95°F. Keep out of direct sunlight.</p> <p>TRANSPORTATION: Veridian Tie Coat should be kept in securely closed containers during transport and storage.</p>
Safety	<p>GENERAL: Read the label safety section for Health and Safety Information, also available from our Technical Help Line.</p> <p>DISPOSAL: Do not discard tins or pour paint into water courses, use the facilities provided. It is best to allow paints to harden before disposal.</p> <p>Remainders of Veridian Tie Coat cannot be disposed of through the municipal waste route or dumped without permit. Disposal of remainders must be arranged for in consultation with the authorities.</p>

IMPORTANT NOTES *The information given in this sheet is not intended to be exhaustive. Any person using the product without first making further written enquiries as to the suitability of the product for the intended purpose does so at their own risk and we can accept no responsibility for the performance of the product or for any loss or damage (other than death or personal or injury resulting from negligence) arising out of such use. The information contained in this sheet is liable to modification from time to time in the light of experience and our policy of continuous product development.*

X and International are registered trademarks of Akzo Nobel.

Regional Addresses

<p>Head Office International Paint Ltd P O Box 20980 Oriol House 16 Connaught Place London W2 2ZB United Kingdom tel: +44 (0) 171 479 6000</p>	<p>European Region International Paint Ltd Stoneygate Lane Felling, Gateshead Tyne & Wear NE10 0JY United Kingdom tel: +44 (0) 191 469 8111</p>	<p>Asia Region International Paint Singapore (Pte) Ltd 449 Tagore Industrial Avenue 01-03 Hong Joo Industrial Building Singapore 767820</p>	<p>Australasia Region International Paint 115 Hyde Road Yeronga, Brisbane Queensland 4104 Australia tel: +61 (0) 7 3892 8866</p>	<p>North America Region International Paint Inc 2270 Morris Avenue Union New Jersey 07083 USA tel: +1 (0) 908 686 1300 fax: +1 (0) 908 686 8545</p>	<p>South America Region International Paint Rod Rap Iavares, KM 18.5 Predio Administrativo 11 Butantã CEP 05577-300 Sao Paulo, Brazil tel: +55 (0) 11 3789 2000</p>
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Ref: 05000081
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Supersedes: 28-Nov-2002

MSDS for XP A101

MATERIAL SAFETY DATA SHEET

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

EMERGENCIES
HEALTH/SPILLS.....: 800-548-0489
CHEMTREC ASSISTANCE: 800-424-9300
CHEMTREC OUTSIDE US: 703-527-3887
CANUTEC.....: 613-996-6666

KOP-COAT, INC
PRODUCT INFORMATION: 800-221-4466
OUTSIDE USA.....: 973-625-3100

1 PRODUCT IDENTIFICATION

PRODUCT NAME: KLEAR N' KLEAN PLUS XP-A101 WHITE TOPCOAT
PRODUCT USE.: UNDERWATER COATING
APPEARANCE.: WHITE LIQUID WITH HYDROCARBON ODOR
CAS NUMBER.: MIXTURE
SYNONYMS.....: NONE

REVISION.....:
DATE.....: 7/13/10
MSDS NUMBER: 1610100

2 HAZARDOUS INGREDIENTS

<u>HAZARDOUS COMPONENT</u>	<u>REG AGENCY</u>	<u>PPM</u>	<u>NOTES</u>	<u>MG/M3</u>	<u>NOTES</u>
Light aliphatic petroleum naphtha CAS NUMBER: 64742-89-8 PERCENT BY WGT: 25 TO 30	NIOSH ACGIH TLV OSHA PEL	- 300 300			4
Titanium dioxide CAS NUMBER: 13463-67-7 PERCENT BY WGT: 40 TO 50	ACGIH - TWA NIOSH OSHA TWA	- - -	(+)	10 - 10	(+) 1
Vinyltri(methylethylketoxime) silane CAS NUMBER: 2224-33-1 PERCENT BY WGT: 3 to 7	TWA (Vendor) STEL (Vendor)	3 10			
Xylene CAS NUMBER: 1330-20-7 PERCENT BY WGT: 1 TO 5	ACGIH STEL ACGIH-TWA NIOSH NIOSH STEL OSHA STEL OSHA TWA	150 100 100 150 150 100		651 435 655 655 435	
Alumina hydrate CAS NUMBER: 21645-51-2 PERCENT BY WGT: 1 TO 5	ACGIH - TWA OSHA TWA	- -		10 5	
Amorphous silica CAS NUMBER: 7631-86-9 PERCENT BY WGT: 1 TO 5	ACGIH TWA ACGM TLV OSHA TWA	- - -		5 10 15	2 1 1

PRODUCT NAME: KLEAR N' KLEAN PLUS XP-A101 WHITE TOPCOAT

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Stoddard Solvent	ACGIH –TWA	100	-
CAS NUMBER: 8052-41-3	NIOSH	-	350
PERCENT BY WGT: 1 TO 5	OSHA TWA	100	-

C10-C13 Isoalkanes (None established)
CAS NUMBER: 68551-17-7
PERCENT BY WGT: 5 TO 10

NOTES:

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

3 HAZARDS IDENTIFICATION

EYE: Direct contact with liquid or vapor causes serious irritation.

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

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

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

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

4 FIRST AID MEASURES

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

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

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

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

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

5 FIRE FIGHTING MEASURES

FLASH POINT: 58° F/14° C (closed cup)

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

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

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

6 SPILL AND LEAK PROCEDURES

Stop spill/leak if no risk involved. Avoid breathing vapors. Use an inert absorbent to complete a clean-up. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

7 HANDLING AND STORAGE

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

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

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

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

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

RESPIRATORS: Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved or equivalent) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. A respiratory protection program that meets 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

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

9 PHYSICAL AND CHEMICAL PROPERTIES

Weight Per Gallon (lbs): 8.75	% VOL by Weight: 29.4%
Vapor Density: (Air=1) >1	Boiling Point: Not determined
Vapor Pressure: Not determined	Evaporation Rate: (ether= 1) <1
pH: Not determined	Specific Gravity: 1.05
Solubility in Water: Negligible	Viscosity: Not determined
VOC Content: 308 g/l	

10 STABILITY AND REACTIVITY DATA

STABILITY: Stable
 HAZARDOUS POLYMERIZATION: Will not occur
 INCOMPATIBILITY: Avoid oxidizing agents, strong acids, bases, amines and ammoniacal compounds, heat, sparks and open flames
 HAZARDOUS DECOMPOSITION PRODUCT(S): Carbon monoxide, carbon dioxide, silicon dioxide and formaldehyde upon thermal decomposition.

11 TOXICOLOGICAL INFORMATION

Contact Kop-Coat for applicable information.

12 ECOLOGICAL INFORMATION

Product has not been tested for ecotoxicity.

13 DISPOSAL CONSIDERATIONS

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

14 TRANSPORTATION INFORMATION

DEPARTMENT OF TRANSPORTATION REPORTABLE QUANTITIES	
<u>REPORTABLE QTY (LBS)</u>	<u>HAZARDOUS SUBSTANCE</u>
100	Xylene

DOT INFORMATION FOR AIR TRANSPORT:
 DOT PROPER SHIPPING NAME: FLAMMABLE LIQUID, N.O.S.
 DOT CLASS: 3
 Packing Group: II
 DOT IDENTIFICATION NUMBER: UN1993

DOT INFORMATION FOR GROUND TRANSPORT IN CONTAINERS LESS THAN 1.2 QUARTS (1 L)
 DOT PROPER SHIPPING NAME: ORM-D
 LABEL: None
 DOT IDENTIFICATION NUMBER: None

PRODUCT NAME: KLEAR N' KLEAN PLUS XP-A101 WHITE TOPCOAT

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15 REGULATORY INFORMATION

No information available.

16 OTHER INFORMATION

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

Appendix C
Material Safety Data Sheet (MSDS) for Paint Stripper Used by Boatyards

MSDS for Klean-Strip Aircraft Remover

Klean-Strip Aircraft Remover



Printed: 02/03/2009
 Revision: 01/30/2009
 Supersedes Revision: 09/04/2007
 Date Created: 04/19/2005

1. Product and Company Identification

Product Code: 3404.11
Product Name: Klean-Strip Aircraft Remover
Manufacturer Information
Company Name: W. M. Barr
 2105 Channel Avenue
 Memphis, TN 38113
Phone Number: (901)775-0100
Emergency Contact: 3E 24 Hour Emergency Contact (800)451-8346
Information: W.M. Barr Customer Service (800)398-3892
Web site address: www.wmbarr.com
Preparer Name: W.M. Barr EHS Dept (901)775-0100
Synonyms
 QAR343, GAR343

2. Composition/Information on Ingredients

Hazardous Components (Chemical Name)	CAS #	Concentration	OSHA TWA	ACGIH TWA	Other Limits
1. Dichloromethane (Methylene chloride)	75-09-2	60.0 -100.0 %	25 ppm	50 ppm	No data.
2. Methanol (Methyl alcohol; Carbinol; Wood alcohol)	67-56-1	5.0 -10.0 %	200 ppm	200 ppm	No data.
3. Tall oil	8002-26-4	1.0 -5.0 %	No data.	No data.	No data.
4. Ammonium hydroxide	1336-21-6	1.0 -5.0 %	No data.	No data.	No data.
5. Xylene (mixed isomers) (Benzene, dimethyl-)	1330-20-7	1.0 -5.0 %	100 ppm	100 ppm	No data.
Hazardous Components (Chemical Name)	CAS #	OSHA STEL	OSHA CEIL	ACGIH STEL	ACGIH CEIL
1. Dichloromethane (Methylene chloride)	75-09-2	125 ppm (15 min)	No data.	No data.	No data.
2. Methanol (Methyl alcohol; Carbinol; Wood alcohol)	67-56-1	No data.	No data.	250 ppm	No data.
3. Tall oil	8002-26-4	No data.	No data.	No data.	No data.
4. Ammonium hydroxide	1336-21-6	No data.	No data.	No data.	No data.
5. Xylene (mixed isomers) (Benzene, dimethyl-)	1330-20-7	No data.	No data.	150 ppm	No data.

3. Hazards Identification

Emergency Overview

Danger! Poison. May be fatal or cause blindness if swallowed. Vapor harmful. Eye and skin irritant.

OSHA Regulatory Status:

This material is classified as hazardous under OSHA regulations.

Potential Health Effects (Acute and Chronic)

Inhalation Acute Exposure Effects:

Vapor harmful. May cause dizziness; headache; watering of eyes; injuries to mucous membranes; irritation of the throat and respiratory tract; nausea; numbness in fingers, arms and legs; bronchospasm; hot flashes; tissue damage; spotted vision; dilation of pupils; increase of carboxyhemoglobin levels, which can cause stress to the cardiovascular system; arm, leg, and chest pains; depression of the central nervous system; bronchitis; pulmonary edema; chemical pneumonitis; difficulty breathing; vomiting; visual disturbances; giddiness; intoxication; sleepiness; cough and dyspnea; cold, clammy, extremities, and diarrhea. Severe overexposure may cause irregular or rapid heartbeat; convulsions; unconsciousness; and death. Elevated carboxyhemoglobin levels can be additive to the increase caused by smoking and other carbon monoxide sources.

Klean-Strip Aircraft Remover

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Skin Contact Acute Exposure Effects

This product is a skin irritant. May be absorbed through the skin. May cause irritation; burns; blisters; tissue destruction; drying and defatting of skin; and dermatitis. May cause symptoms listed under inhalation. Vapors and mist can irritate moist skin.

Eye Contact Acute Exposure Effects

This material is an eye irritant. May cause irritation and pain; conjunctivitis of eyes; corneal ulcerations of the eye; burns; and blindness. Vapors and mist can irritate eyes.

Ingestion Acute Exposure Effects

Poison. Cannot be made non-poisonous. May be fatal or cause blindness. May cause irritation to mouth, throat and stomach; headache; nausea; dizziness; stupor; liver, kidney and heart damage; depression of the central nervous system; narcosis; burning of esophagus, stomach, mouth and throat; vomiting; gastrointestinal irritation; diarrhea; abdominal pain; collapse; and death. May be corrosive to mouth and throat. May produce symptoms listed under inhalation. Liquid aspirated into lungs may cause chemical pneumonitis and systemic effects.

Chronic Exposure Effects

Reports have associated repeated and prolonged overexposure to solvents with neurological and other physiological damage. Prolonged or repeated contact may cause dermatitis. Prolonged skin contact may result in absorption of a harmful amount of this material. May cause headache; conjunctivitis; gastric disturbances; skin irritation; permanent central nervous system changes; decreased response to visual and auditory stimulation; visual impairment or blindness; hallucinations; changes in blood; blood disorders; kidney, liver or pancreatic damage; insomnia; giddiness; and death. May cause additional symptoms listed under inhalation.

Signs and Symptoms Of Exposure

See Potential Health Effects.

Medical Conditions Generally Aggravated By Exposure

Diseases of the blood; skin; eyes; liver; kidneys; lungs; cardiovascular; pulmonary; and respiratory systems; alcoholism; and rhythm disorders of the heart.

4. First Aid Measures

Emergency and First Aid Procedures

Inhalation

If user experiences breathing difficulty, move to air free of vapors. Administer oxygen or artificial respiration until medical assistance can be rendered.

Skin Contact

Wash with soap and large quantities of water and seek medical attention if irritation from contact persists.

Eye Contact

Flush with large quantities of water for at least 15 minutes and seek immediate medical attention.

Ingestion

Call your poison control center, hospital emergency room or physician immediately for instructions to induce vomiting.

Note to Physician

Poison. This product contains methanol and methylene chloride. Methanol is metabolized to formaldehyde and formic acid. These metabolites may cause metabolic acidosis, visual disturbances, and blindness. Since metabolism is required for these toxic symptoms, their onset may be delayed from 6 to 30 hours following ingestion. Ethanol competes for the same metabolic pathway and has been used as an antidote. Methanol is effectively removed by hemodialysis. Adrenalin should never be given to a person overexposed to methylene chloride. Call your local poison control center for further information.

Klean-Strip Aircraft Remover

Printed: 02/03/2009
Revision: 01/30/2009
Supersedes Revision: 09/04/2007

5. Fire Fighting Measures

Flash Pt: No data.
Explosive Limits: LEL: No data. UEL: No data.

Fire Fighting Instructions

Self-contained respiratory protection should be provided for fire fighters fighting fires in buildings or confined areas. Storage containers exposed to fire should be kept cool with water spray to prevent pressure build-up. Stay away from heads of containers that have been exposed to intense heat or flame.

Contact of liquid or vapor with flame or hot surfaces will produce toxic gases and a corrosive residue that will cause deterioration of metal.

Flammable Properties and Hazards

Flashpoint: NO FLASH TO BOILING

Hazardous Combustion Products

carbon monoxide, carbon dioxide, phosgene, chlorine.

Extinguishing Media

Use carbon dioxide, dry powder or foam.

Unsuitable Extinguishing Media

No data available.

6. Accidental Release Measures

Steps To Be Taken In Case Material Is Released Or Spilled

Clean-up

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind, out of low areas, and ventilate closed spaces before entering. Shut off ignition sources; keep flares, smoking or flames out of hazard area.

Small Spills

Take up liquid with sand, earth or other noncombustible absorbent material and place in a plastic container where applicable.

Large Spills

Dike far ahead of spill for later disposal.

Waste Disposal

Dispose in accordance with applicable local, state and federal regulations.

7. Handling and Storage

Precautions To Be Taken in Handling

Read carefully all cautions and directions on product label before use. Since empty container retains residue, follow all label warnings even after container is empty. Dispose of empty container according to all regulations. Do not reuse this container.

Wear protective clothing and take precautions to prevent all skin and eye contact.

Precautions To Be Taken in Storing

Store in a cool, dry place. Exposure to high temperatures or prolonged exposure to sun may cause can to leak or swell. Once opened, remover should be used within six months or discarded to avoid can deterioration. Do not store near flames or at elevated temperatures.

Klean-Strip Aircraft Remover

Printed: 02/03/2009
Revision: 01/30/2009
Supersedes Revision: 09/04/2007

8. Exposure Controls/Personal Protection

Respiratory Equipment (Specify Type)

For OSHA controlled work place and other regular users. Use only with adequate ventilation under engineered air control systems designed to prevent exceeding appropriate TLV. For occasional use, where engineered air control is not feasible, use properly maintained and properly fitted NIOSH approved self-contained breathing apparatus for chlorinated solvent vapors. A dust mask does not provide protection against vapors.

Eye Protection

Safety glasses, chemical goggles, or face shields are recommended to safeguard against potential eye contact, irritation, or injury. Chemical goggles or face shields are recommended when splashing or spraying of chemical is possible. A faceshield provides more protection to help reduce chemical contact to the face and eyes.

Protective Gloves

Wear gloves with as much resistance to the chemical ingredients as possible. Laminate film gloves offer the best protection. Other glove materials will be degraded by methylene chloride, but may provide protection for some amount of time, based on the type of glove and the conditions of use. Consult your glove supplier for additional information. Gloves contaminated with product should be discarded and not reused.

Other Protective Clothing

Various application methods can dictate use of additional protective safety equipment, such as impermeable aprons, etc., to minimize exposure. A source of clean water should be available in the work area for flushing eyes and skin. Do not eat, drink, or smoke in the work area. Wash hands thoroughly after use. Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use. Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

Engineering Controls (Ventilation etc.)

Use only with adequate ventilation to prevent build up of vapors. Open all windows and doors. Use only with a cross ventilation of moving fresh air across the work area. If strong odor is noticed or you experience slight dizziness, headache, nausea, or eye-watering, STOP ventilation is inadequate. Leave area immediately.

Work/Hygienic/Maintenance Practices

A source of clean water should be available in the work area for flushing of the eyes and skin.

Wash hands thoroughly after use.

Do not eat, drink, or smoke in the work area.

Before reuse, thoroughly clean any clothing or protective equipment that has been contaminated by prior use.

Discard any clothing or other protective equipment that cannot be decontaminated, such as gloves or shoes.

9. Physical and Chemical Properties

Physical States:	[] Gas	[X] Liquid	[] Solid
Melting Point:	No data.		
Boiling Point:	~ 107.00 F (41.7 C)		
Autoignition Pt:	No data.		
Flash Pt:	No data.		
Explosive Limits:	LEL: No data.	UEL: No data.	
Specific Gravity (Water = 1):	1.1683 - 1.1985		
Bulk density:	No data.		
Vapor Pressure (vs. Air or mm Hg):	350 MM HG at 20.0 C		
Vapor Density (vs. Air = 1):	> 1		
Evaporation Rate (vs Butyl Acetate=1):	> 1		

Klean-Strip Aircraft Remover

Printed: 02/03/2009
Revision: 01/30/2009
Supersedes Revision: 09/04/2007

Solubility in Water:	Partial
Percent Volatile:	95.0 % by weight.
VOC / Volume:	12.0000 % WT
Heat Value:	No data.
Particle Size:	No data.
Corrosion Rate:	No data.
pH:	10 - 12
Appearance and Odor	
	No data available.

10. Stability and Reactivity

Stability: Unstable [] Stable [X]

Conditions To Avoid - Instability

No data available.

Incompatibility - Materials To Avoid

Incompatible with strong oxidizing agents; strong caustics; strong alkalis; oxygen; nitrogen peroxide; chemically active metals such as aluminum and magnesium; sodium; potassium; and nitric acid.

Hazardous Decomposition Or Byproducts

Thermal decomposition may produce hydrogen chloride; chlorine gas; small quantities of phosgene; carbon monoxide; carbon dioxide; formaldehyde; and unidentified organic compounds in black smoke.

Hazardous Polymerization: Will occur [] Will not occur [X]

Conditions To Avoid - Hazardous Polymerization

Will not occur.

11. Toxicological Information

Methylene Chloride:

LD50 Mouse inhalation 16000 ppm/7 hr plus 1 hr observation
LD50 Rat oral 1600 mg/kg
LC50 Rat inhalation 2,000,000 mg/cu m/15 min
LC50 Guinea pig inhalation 11600 ppm/6 hr plus 18 hr observation
LC50 Rat ihl 88,000 mg/cu m/30 mos
LD50 Mouse ip 437 mg/kg
LC50 Mouse ihl 14,400 ppm/7 hr
LD50 Mouse sc 6460 mg/kg
LD50 Rat oral 3000 mg/kg body weight
LC50 Rat ihl 79,000 mg/cu m/2 hr
LC50 Rat ihl 52,000 mg/cu m/6 hr
LC50 Mouse ihl 56,230 mg/cu m/7 hr
LC50 Mouse ihl 49,100 mg/cu m/6 hr
LC50 Mouse ihl 51,500 mg/cu m/2 hr
LC50 Guinea pig ihl 40,200 mg/cu m/6 hr

Methanol:

LD50 Rat oral 5628 mg/kg
LC50 Rat inhalation 64000 ppm/4 hr
LC50 Rat inhalation 87.5 mg/L/6 hr
LD50 Rat ip 7529 mg/kg
LD50 Rat iv 2131 mg/kg
LD50 Mouse oral 7300 mg/kg
LD50 Mouse ip 10765 mg/kg

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LD50 Mouse sc 4100 mg/kg bw
LD50 Mouse iv 4710 mg/kg
LD50 Rabbit oral 14.4 g/kg
LD50 Rabbit dermal 15,800 mg/kg bw
LD50 Rabbit ip 1826 mg/kg bw
LD50 Rabbit iv 8907 mg/kg bw
LD50 Monkey oral 2-3 g/kg
LD50 Macaca nemestrina (Pigtail monkey) ip 3-4 g/kg
LD50 Dog oral 8000 mg/kg bw
LC50 Cat inhalation 85.41 mg/L/4.5 hr
LC50 Cat inhalation 43.68 mg/L/6 hr
LD50 Guinea pig ip 3556 mg/kg bw
LD50 Hamster ip 8555 mg/kg bw

Ammonium Hydroxide:

LD50 Rat oral 350 mg/kg

Xylene:

LD50 Rat oral 4.3 g/kg
LD50 Rat oral 10 mL/kg /Xylene/
LD50 Mouse oral 1590 mg/kg /Xylene/
LC50 Rat inhalation 6,350 ppm/4 hr
LCLo Rat inhalation 8,000 ppm/4 hr
LC50 Rat inhalation 6,350 ppm/4 hr
LC50 Mouse inhalation 3,907 ppm/6 hr
LD50 Rat oral 4.3 g/kg and 10 ml/kg /Xylene/
LD50 Mouse oral 1590 mg/kg /Xylene/
LC50 Rat oral 29,000 mg/cu m (6670 ppm) /Xylene/
LD50 Rat oral range from 3523 mg/kg to 8600 mg/kg. /Mixed Xylenes/
LD50 Mouse (B6C3F1) oral 5251 mg/kg (female) and 5627 mg/kg (male). /Mixed Xylenes/
LD50 Rabbit dermal > 5 ml/kg (43 g/kg). /Mixed Xylenes

Carcinogenicity/Other Information

No data available.

Hazardous Components (Chemical Name)	CAS #	NTP	IARC	ACGIH	OSHA
1. Dichloromethane (Methylene chloride)	75-09-2	Possible	2B	A3	Yes
2. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	n.a.	n.a.	n.a.	n.a.
3. Tall oil	8002-26-4	n.a.	n.a.	n.a.	n.a.
4. Ammonium hydroxide	1336-21-6	n.a.	n.a.	n.a.	n.a.
5. Xylene (mixed isomers) (Benzene, dimethyl-)	1330-20-7	n.a.	n.a.	A4	n.a.

12. Ecological Information

No data available.

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13. Disposal Considerations

Waste Disposal Method

Dispose in accordance with applicable local, state, and federal regulations.

14. Transport Information

LAND TRANSPORT (US DOT)

DOT Proper Shipping Name UN1760, Corrosive Liquid, N.O.S. 8, PGI (Ammonium Hydroxide, Methylene Chloride)
DOT Hazard Class: 8
DOT Hazard Label: CORROSIVE
UN/NA Number: 1760
Packing Group: I

LAND TRANSPORT (Canadian TDG)

UN Number: 1760
Packing Group: I

Additional Transport Information

For D.O.T. information, contact W.M. Barr Technical Services at 1-800-398-3892.

15. Regulatory Information

Canadian Chemical Lists

Hazardous Components (Chemical Name)	CAS #	Canadian NPRI	Canadian IDL
1. Dichloromethane {Methylene chloride}	75-09-2	Yes	Yes
2. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	Yes	Yes
3. Tall oil	8002-26-4		
4. Ammonium hydroxide	1336-21-6		Yes
5. Xylene (mixed isomers) {Benzene, dimethyl-}	1330-20-7	Yes	

Canadian WHMIS Classification

No data available.

US EPA SARA Title III

Hazardous Components (Chemical Name)	CAS #	Sec.302 (EHS)	Sec.304 RQ	Sec.313 (TRI)	Sec.110
1. Dichloromethane {Methylene chloride}	75-09-2	No	Yes 1000 LB	Yes	Yes
2. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	No	Yes 5000 LB	Yes	No
3. Tall oil	8002-26-4	No	No	No	
4. Ammonium hydroxide	1336-21-6	No	Yes 1000 LB	No	
5. Xylene (mixed isomers) {Benzene, dimethyl-}	1330-20-7	No	Yes 100 LB	Yes	Yes

US EPA CAA, CWA, TSCA

Hazardous Components (Chemical Name)	CAS #	EPA CAA	EPA CWA NPDES	EPA TSCA	CA PROP 65
1. Dichloromethane {Methylene chloride}	75-09-2	HAP	Yes	Inventory, 8A CAIR	Yes
2. Methanol {Methyl alcohol; Carbinol; Wood alcohol}	67-56-1	HAP		Inventory	
3. Tall oil	8002-26-4	No		Inventory	
4. Ammonium hydroxide	1336-21-6	No		Inventory	
5. Xylene (mixed isomers) {Benzene, dimethyl-}	1330-20-7	HAP	Yes	Inventory	

Canadian Regulatory Lists:

Canadian NPRI: Canadian National Pollutant Release Inventory
Canadian IDL: Canadian Ingredient Disclosure List

SARA (Superfund Amendments and Reauthorization Act of 1986) Lists:

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Sec.302:	EPA SARA Title III Section 302 Extremely Hazardous Chemical with TPQ. * indicates 10000 LB TPQ if not volatile.
Sec.304:	EPA SARA Title III Section 304: CERCLA Reportable + Sec.302 with Reportable Quantity. ** indicates statutory RQ.
Sec.313:	EPA SARA Title III Section 313 Toxic Release Inventory. Note: -Cat indicates a member of a chemical category.
Sec.110:	EPA SARA 110 Superfund Site Priority Contaminant List

TSCA (Toxic Substances Control Act) Lists:

Inventory:	Chemical Listed in the TSCA Inventory.
5A(2):	Chemical Subject to Significant New Rules (SNURS)
6A:	Commercial Chemical Control Rules
8A:	Toxic Substances Subject To Information Rules on Production
8A CAIR:	Comprehensive Assessment Information Rules - (CAIR)
8A PAIR:	Preliminary Assessment Information Rules - (PAIR)
8C:	Records of Allegations of Significant Adverse Reactions
8D:	Health and Safety Data Reporting Rules
8D TERM:	Health and Safety Data Reporting Rule Terminations
12(b):	Notice of Export

Other Important Lists:

CWA NPDES:	EPA Clean Water Act NPDES Permit Chemical
CAA HAP:	EPA Clean Air Act Hazardous Air Pollutant
CAA ODC:	EPA Clean Air Act Ozone Depleting Chemical (1=CFC, 2=HCFC)
CA PROP 65:	California Proposition 65

International Regulatory Lists:

EPA Hazard Categories:

This material meets the EPA 'Hazard Categories' defined for SARA Title III Sections 311/312 as indicated:

Yes No Acute (immediate) Health Hazard
 Yes No Chronic (delayed) Health Hazard
 Yes No Fire Hazard
 Yes No Sudden Release of Pressure Hazard
 Yes No Reactive Hazard

Regulatory Information

This product has been classified according to the hazard criteria of the Controlled Products Regulations.

Concentrations reported in section 2 are weight/weight.

Ingredients disclosed in section 2 are on Canadian DSL.

16. Other Information

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make an independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in accordance with applicable federal, state and local laws and regulations.

Company Policy or Disclaimer

The information contained herein is presented in good faith and believed to be accurate as of the effective date shown above. This information is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determination of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. Any use of this data and information must be determined by the user to be in

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