

KOP-COAT, INC  
 MARINE GROUP EAST  
 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

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 1 PRODUCT IDENTIFICATION  
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PRODUCT NAME: 1328 Unepoxy Green  
 PRODUCT USE.: Antifouling bottom paint  
 APPEARANCE..: Green liquid with hydrocarbon odor  
 CAS NUMBER..: Mixture  
 SYNONYMS....: None

REVISION...: 6  
 DATE.....: 12/12/06  
 MSDS NUMBER: 1132800

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 2 HAZARDOUS INGREDIENTS  
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<u>HAZARDOUS COMPONENT</u>	<u>REG AGENCY</u>	<u>PPM</u>	<u>NOTES</u>	<u>MG/M3</u>	<u>NOTES</u>
Epoxy Ester CAS NUMBER:REICH-TR SECRET PERCENT BY WGT: 1 TO 5			(None established.)		
Ethyl Benzene CAS NUMBER:100-41-4 PERCENT BY WGT: < 1	ACGIH STEL ACGIH-TWA NIOSH NIOSH STEL OSHA STEL OSHA TWA	125 100 100 125 125 100		543 434 435 545 545 435	
Zinc oxide (as dust) CAS NUMBER:1314-13-2 PERCENT BY WGT: 1 TO 5	ACGIH-TWA OSHA TWA OSHA-TWA	- - -		2.0 15 5	 1 2
Cuprous oxide (as Cu dust and mists) CAS NUMBER:1317-39-1 PERCENT BY WGT: 40 TO 45	ACGIH-TLV OSHA-TWA			1.0 1.0	
Xylene CAS NUMBER:1330-20-7	ACGIH STEL ACGIH-TWA	150 100		651	

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 2 HAZARDOUS INGREDIENTS  
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HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
PERCENT BY WGT: 1 TO 5	NIOSH	100		435	
	NIOSH STEL	150		655	
	OSHA STEL	150		655	
	OSHA TWA	100		435	
Titanium dioxide	ACGIH-TWA	-		10	
CAS NUMBER:13463-67-7	NIOSH	-	(+)	-	(+)
PERCENT BY WGT: 5 TO 10	OSHA TWA	-		10	1
Talc (containing no asbestos)	ACGIH TWA	-		2	2
	NIOSH	-		2	
CAS NUMBER:14807-96-6	OSHA TWA	-		2	3
PERCENT BY WGT: 10 TO 15					
Petroleum distillates	ACGIH TLV	100	STS		
CAS NUMBER:64742-94-5	OSHA PEL	500	STS		
PERCENT BY WGT: 10 TO 15					
Naphthalene	ACGIH STEL	15		79	
CAS NUMBER:91-20-3	ACGIH TWA	10		52	
PERCENT BY WGT: < 1	OSHA STEL	15		75	
	OSHA TWA	10		50	
1,2,4 Trimethylbenzene			(None established.)		
CAS NUMBER:95-63-6					
PERCENT BY WGT: 1 TO 5					

NOTES:

- 1) Total dust
- 2) Respirable fraction
- 3) Respirable dust
- (+) NIOSH Occupational Carcinogen
- STS) Recommend that exposure limits for stoddard solvent be used as a guideline.

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 3 HAZARDS IDENTIFICATION  
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EMERGENCY OVERVIEW: WARNING! Flammable liquid and vapor. Harmful or fatal if swallowed or inhaled. May cause eye, skin and respiratory tract irritation.

EYES: May cause moderate eye irritation. Not expected to cause permanent damage if promptly rinsed from eyes.

SKIN: May cause skin irritation. Prolonged and/or repeated skin contact may cause irritation characterized by redness, cracking and blistering. May be absorbed in toxic amounts through the skin and cause systemic effects.

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3 HAZARDS IDENTIFICATION  
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INHALATION: May cause respiratory tract irritation. Exposure to high concentrations may cause central nervous system effects, including headache, drowsiness, nausea, and dizziness. Continued inhalation may result in unconsciousness or death.

INGESTION: May cause gastrointestinal disturbances such as nausea, vomiting, diarrhea, and effects similar to those described in INHALATION. Aspiration of this product into the lungs during ingestion or vomiting may cause mild to severe pulmonary injury, possibly progressing to death.

CHRONIC: Reports have associated repeated or prolonged occupational exposure to solvents with permanent brain or nervous system damage, liver and kidney damage or may cause cardiac arrhythmia. Ethylbenzene, naphthalene and titanium dioxide are classified by IARC as possibly carcinogenic to humans (2B) based on inadequate evidence in humans and sufficient evidence of carcinogenicity in laboratory animals.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing disease in or a history of ailments involving the nervous system, liver, kidney, respiratory system or eyes are at a greater risk of developing adverse effects when exposed to this material.

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4 FIRST AID MEASURES  
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EYE CONTACT: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first five minutes, then continue rinsing the eye. Contact a poison control center for treatment advice.

SKIN CONTACT: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. Wash contaminated clothing before reuse.

INHALATION: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth. Call a poison control center or doctor for further treatment advice.

INGESTION: Immediately call a poison control center or doctor. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give any liquid to the person. Do not 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.

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5 FIRE FIGHTING MEASURES  
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5 FIRE FIGHTING MEASURES  
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FLASH POINT: 80 F/27C FLAMMABLE LIQUID AND VAPOR

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

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

FIRE AND EXPLOSION HAZARDS: Can release vapors that form explosive mixtures. Solvent vapors are heavier than air and can travel along the ground or be moved by ventilation and ignited by flames and ignition sources. Containers may explode when exposed to extreme heat (fire). Toxic vapors may be given off in a fire.

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6 SPILL AND LEAK PROCEDURES  
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Stop spill/leak if no risk involved. Avoid breathing vapors. Eliminate ALL sources of ignition such as flares, flames (including pilot lights), and electrical sparks. Ventilate area. Take up carefully to avoid heat and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials. Dispose of contaminated absorbent, container and unused contents in accordance with local, state and federal regulations.

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7 HANDLING AND STORAGE  
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HANDLING: Avoid breathing of vapors, mists or fumes. Do not get on skin, in eyes or on clothing. Spray paint in accordance with OSHA 29 CFR 1910.107. Use with adequate ventilation. Wash thoroughly after handling.

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

OTHER: Keep away from heat and open flame. If post application/use processing of this product generates dust or if spray application is made, " Exposure Limits " in Section 2 apply. Do not use until manufacturer's precautions have been read/understood. Containers of this material may be hazardous when empty. Since emptied containers retain product residues (vapor, liquid), all hazard precautions given in the data sheet must be observed. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION. THEY CAN EXPLODE AND CAUSE INJURY OR DEATH. All five gallon pails and larger containers, should be grounded and/or bonded when material is transferred.

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8 EXPOSURE CONTROLS/PERSONAL PROTECTION  
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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 station and shower.

RESPIRATORS: Ensure fresh air entry during application and drying. If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, or if air monitoring demonstrates vapor level is above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved or equivalent) during and after application. Respirator selection, use and maintenance should be in accordance with the requirements in 29 CFR 1910.134 and NIOSH 42 CFR 84, whenever workplace conditions warrant a respirator's use.

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

9 PHYSICAL AND CHEMICAL PROPERTIES

Weight Per Gallon (lbs): 15.440 % VOL by Weight.: Not determined
Vapor Density.: (Air=1)>1 Boiling Point...: Not determined
Vapor Pressure: Not determined Evaporation Rate: (ether=1)<1
pH.....: Not determined Specific Gravity: > 1
Solubility In Water: Negligible Viscosity.....: Not determined
VOC Content.....: 395 g/l

10 STABILITY AND REACTIVITY DATA

STABILITY: This material is stable.
HAZARDOUS POLYMERIZATION: None
INCOMPATIBILITY: Avoid acids, reducing agents, oxidizing agents, chlorates, bromates, potassium nitrate, hydrogen peroxide, heat, sparks and open flame.
HAZARDOUS DECOMPOSITION PRODUCT(S): Carbon monoxide, carbon dioxide, noxious copper compounds, and irritating vapors of acetic acid and other toxic organic compounds during fires.

11 TOXICOLOGICAL INFORMATION

Xylene: Laboratory animals exposed to high levels of xylene showed evidence of

11 TOXICOLOGICAL INFORMATION

effects on the liver, kidneys, lungs, spleen, and caused hearing loss. Rats exposed during pregnancy to xylene showed fetotoxic effects.

Certain compounds of this product have been found to cause reproductive harm and/or harm to the fetus in laboratory animal studies. Relevance to humans is uncertain.

12 ECOLOGICAL INFORMATION

This material is toxic to fish. Do not apply directly to water by cleaning of equipment or disposal of wastes. Do not allow chips and dust generated during paint removal to enter water. Dispose of paint debris in an approved landfill. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans and other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent to sewer system without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13 DISPOSAL CONSIDERATIONS

Pesticide Disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use or according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Disposal: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by federal, state and local authorities.

14 TRANSPORTATION INFORMATION

DEPARTMENT OF TRANSPORTATION REPORTABLE QUANTITIES

REPORTABLE QTY (LBS)	HAZARDOUS SUBSTANCE
100	Xylene
100	Naphthalene

DOT INFORMATION FOR AIR TRANSPORT:  
DOT Proper Shipping Name: Paint  
DOT CLASS: 3  
Packing Group: III  
DOT Identification number: UN1263

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14 TRANSPORTATION INFORMATION  
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DOT INFORMATION FOR DOMESTIC GROUND TRANSPORT IN CONTAINERS LESS THAN  
1.3 gallons (5 L):  
DOT Proper Shipping Name & Marking: ORM-D  
DOT Identification Number: None

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15 REGULATORY INFORMATION  
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SARA TITLE III SECTION 313 CHEMICALS

Ethyl Benzene  
Zinc oxide (as dust)  
Cuprous oxide (as Cu dust and mists)  
Xylene  
Naphthalene  
1,2,4 Trimethylbenzene

WARNING: THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE  
STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING: THIS PRODUCT CONTAINS A CHEMICAL KNOWN TO THE STATE OF  
CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

EPA Registration Number 60061-14.

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16 OTHER INFORMATION  
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Ethylbenzene is considered a Group 2B carcinogen (possibly carcinogenic to  
humans). This category generally includes agents for which there is limited  
evidence in humans in the absence of sufficient evidence in experimental  
animals.

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PREPARED BY: Manager of Health, Safety and Environmental Affairs

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