

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

 1 PRODUCT IDENTIFICATION

PRODUCT NAME: 1340 Hydrocoat Green
 PRODUCT USE.: Antifouling bottom paint
 APPEARANCE..: Green liquid with aromatic odor
 CAS NUMBER..: Mixture
 SYNONYMS....: None

REVISION...: 1
 DATE.....: 10/11/00
 MSDS NUMBER: 1134000

 2 HAZARDOUS INGREDIENTS

| <u>HAZARDOUS COMPONENT</u> | <u>REG AGENCY</u> | <u>PPM</u> | <u>NOTES</u> | <u>MG/M3</u> | <u>NOTES</u> |
|--|--------------------|------------|--------------|--------------|--------------|
| Ethylene glycol monobutyl ether (skin) | ACGIH-TWA NIOSH | 25 25 | | 121 120 | |
| CAS NUMBER:111-76-2 | OSHA TWA | 25 | | 120 | |
| PERCENT BY WGT: 1 TO 5 | | | | | |
| Cuprous oxide | ACGIH-TLV | | | 1.0 | |
| CAS NUMBER:1317-39-1 | OSHA-TWA | | | 1.0 | |
| PERCENT BY WGT: 40 TO 45 | | | | | |
| Kaolin | ACGIH-TWA | - | | 2 | 2 |
| CAS NUMBER:1332-58-7 | OSHA TWA | - | | 10 | 1 |
| PERCENT BY WGT: 1 TO 5 | OSHA-TWA | - | | 5 | 2 |
| Titanium dioxide | ACGIH-TWA | - | | 10 | |
| CAS NUMBER:13463-67-7 | NIOSH | - | (+) | - | (+) |
| PERCENT BY WGT: 1 TO 5 | OSHA TWA | - | | 10 | 1 |
| Barium sulfate | ACGIH TWA | - | | 10 | |
| CAS NUMBER:7727-43-7 | OSHA TWA | - | | 10 | 1 |
| PERCENT BY WGT: 10 TO 15 | OSHA-TWA | - | | 5 | 2 |

NOTES:

2 HAZARDOUS INGREDIENTS

NOTES:

- 1) Total dust
- 2) Respirable fraction
- (+) NIOSH Occupational Carcinogen

3 HAZARDS IDENTIFICATION

EYE: Direct contact with liquid or vapor causes irritation.

SKIN: Prolonged or repeated contact with the skin can result in defatting and drying of the skin which may result in skin irritation and dermatitis (rash). May be absorbed through the skin resulting in systemic effects.

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. Prolonged or repeated inhalation of high concentrations of metal fumes may cause metal fume fever characterized by headache, dizziness, metallic taste in mouth and general flu-like symptoms.

INGESTION: 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

4 FIRST AID MEASURES

PERSON.

NOTE TO PHYSICIAN: Application of a corticosteriod cream has been effective in treating severe skin irritation. If blisters develop, they may require abrasion to promote healing.

5 FIRE FIGHTING MEASURES

FLASH POINT: 200 F/ 93 C

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

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

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

6 SPILL AND LEAK PROCEDURES

Stop spill/leak if no risk involved. Avoid breathing vapors. Eliminate ALL sources of ignition. Ventilate area. Take up carefully to avoid heat and sparks. Use an inert absorbent to complete a clean-up. This material reacts with oxidizing materials. Do not discharge into lakes, streams, ponds or public water systems. This pesticide is toxic to aquatic organisms. 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. 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. Do not contaminate water, food or feed by storage or disposal.

 7 HANDLING AND STORAGE

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.

 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 OSHA 1910.134 and NIOSH 42 CFR 84 requirements must be followed whenever workplace conditions warrant a respirator's use.

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

 9 PHYSICAL AND CHEMICAL PROPERTIES

| | | | |
|---------------------------------|--------|--------------------------------|----------------|
| Weight Per Gallon (lbs): | 18.360 | % 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.....: 164 g/L | | | |

 10 STABILITY AND REACTIVITY DATA

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

10 STABILITY AND REACTIVITY DATA

thermal decomposition.

11 TOXICOLOGICAL INFORMATION

Contact Kop-Coat for applicable information.

12 ECOLOGICAL INFORMATION

Product has not been tested for ecotoxicity.

13 DISPOSAL CONSIDERATIONS

Dispose of unusable product in accordance with local, state and federal regulations.

14 TRANSPORTATION INFORMATION

DEPARTMENT OF TRANSPORTATION REPORTABLE QUANTITIES

| REPORTABLE QTY (LBS) | HAZARDOUS SUBSTANCE |
|----------------------|---------------------|
| 10 | Dibutyl Phthalate |

DOT PROPER SHIPPING NAME: None
DOT HAZARD CLASS: None
LABEL: Non-Hazardous
DOT IDENTIFICATION NUMBER: None
DOT information for domestic ground transportation.

15 REGULATORY INFORMATION

SARA TITLE III SECTION 313 CHEMICALS
Ethylene glycol monobutyl ether (skin)
Cuprous oxide (as Cu dust and mists)

EPA Registration Number 60061-87.

16 OTHER INFORMATION

16 OTHER INFORMATION

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

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

PREPARED BY: Manager Of Health Safety and Environmental Affairs