

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: Z*SPAR White Enamel Undercoater 105
 PRODUCT USE.: Undercoater
 APPEARANCE..: White liquid with hydrocarbon odor
 CAS NUMBER..: Mixture
 SYNONYMS....: None

REVISION...: 3
 DATE.....: 12/08/97
 MSDS NUMBER: 8310506

 2 HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENT | REG AGENCY | PPM | NOTES | MG/M3 | NOTES |
|-------------------------------|------------|-----|-------|-------|-------|
| Zinc oxide (as dust) | ACGIH-TWA | - | | 10 | |
| CAS NUMBER:1314-13-2 | 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: 20 TO 25 | 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: 1 TO 5 | | | | | |
| Trimethyl benzene | ACGIH TLV | 25 | | 123 | |
| CAS NUMBER:25551-13-7 | OSHA TWA | 25 | | 125 | |
| PERCENT BY WGT: 1 TO 5 | | | | | |
| Petroleum naphtha | NIOSH | - | | 350 | |
| CAS NUMBER:64742-88-7 | NIOSH STEL | - | | 1800 | 4 |
| PERCENT BY WGT: 15 TO 20 | OSHA TWA | 400 | | 1600 | |
| Petroleum distillates | OSHA-PEL | 100 | | - | |

 2 HAZARDOUS INGREDIENTS

| HAZARDOUS COMPONENT | REG AGENCY | PPM | NOTES | MG/M3 | NOTES |
|--------------------------|------------|-----|-------|-------|-------|
| CAS NUMBER:64742-95-6 | | | | | |
| PERCENT BY WGT: 1 TO 5 | | | | | |
| Mineral spirits | ACGIH TWA | 100 | | - | |
| CAS NUMBER:8052-41-3 | NIOSH | - | | 350 | |
| PERCENT BY WGT: 20 TO 25 | OSHA TWA | 100 | | - | |

NOTES:

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

 3 HAZARDS IDENTIFICATION

EYE: Direct contact with liquid or vapor may cause 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.

4 FIRST AID MEASURES

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: 105 F/41C

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. 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

7 HANDLING AND STORAGE

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.

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 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): | 12.320 | % 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.....: 415 g/L | | |

10 STABILITY AND REACTIVITY DATA

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

DOT PROPER SHIPPING NAME: Consumer commodity
DOT HAZARD CLASS: ORM-D
LABEL: None
DOT IDENTIFICATION NUMBER: None

15 REGULATORY INFORMATION

SARA TITLE III SECTION 313 CHEMICALS

Zinc oxide (as dust)

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

No information available.

16 OTHER INFORMATION

16 OTHER INFORMATION

NOTE: The petroleum distillate (CAS# 64742-95-6) may contain approximately 7% xylene, 3% cumene and 40% trimethylbenzene.

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: L. Briggs Manager Environmental and Regulatory Affairs