

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: 1078 Trinidad '75' Antifouling Black
PRODUCT USE.: Antifouling bottom paint
APPEARANCE..: Black liquid with hydrocarbon odor
CAS NUMBER..: Mixture
SYNONYMS....: None

REVISION....: 5
DATE.....: 1/06/00
MSDS NUMBER: 1107806

2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
Cupric oxide CAS NUMBER:1317-38-0 PERCENT BY WGT: 1 TO 5			(None established.)		
Cuprous oxide CAS NUMBER:1317-39-1 PERCENT BY WGT: 70 TO 75	ACGIH-TLV OSHA-TWA			1.0 1.0	
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		651 434 435 655 655 435	
Carbon black CAS NUMBER:1333-86-4 PERCENT BY WGT: 1 TO 5	ACGIH-TWA NIOSH OSHA TWA	- - -	(+)	3.5 3.5 3.5	8 (+)
Petroleum distillates CAS NUMBER:64742-94-5 PERCENT BY WGT: 5 TO 10	OSHA PEL	100		-	

2 HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENT	REG AGENCY	PPM	NOTES	MG/M3	NOTES
Petroleum distillates CAS NUMBER:64742-95-6 PERCENT BY WGT: 1 TO 5	OSHA-PEL	100		-	
Copper (as Cu dusts & mists) CAS NUMBER:7440-50-8 PERCENT BY WGT: 1 TO 5	ACGIH TWA NIOSH OSHA TWA	- - -		1 1 1	
Dibutyl Phthalate CAS NUMBER:84-74-2 PERCENT BY WGT: 1 TO 5	ACGIH TWA NIOSH OSHA-TWA	- - -		5 5 5	

NOTES:

8) 0.1 mg/m3 in presence of polycyclic aromatic hydrocarbons
(+) 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

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

SKIN CONTACT: 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: 115 F/46 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

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HANDLING: Avoid prolonged or repeated contact with skin or eyes. Avoid prolonged or repeated breathing of vapors, mists or fumes. Spray paint in accordance with OSHA 29 CFR 1910.107. Use with adequate ventilation. Observe good personal hygiene practices and recommended procedures. 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.

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):	22.500	% 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.....: 331 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

DEPARTMENT OF TRANSPORTATION REPORTABLE QUANTITIES

REPORTABLE QTY (LBS)	HAZARDOUS SUBSTANCE
100	Xylene
10	Dibutyl Phthalate
100	Naphthalene

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

Cupric oxide

Cuprous oxide (as Cu dust and mists)

15 REGULATORY INFORMATION

Xylene
Copper (as Cu dusts & mists)
Dibutyl Phthalate

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 60061-50.

16 OTHER INFORMATION

IARC Monograph Vol. 65 reports carbon black is widely used in rubber tires, hoses, gaskets and coated fabrics; smaller amounts are used in printing inks, paints and plastics. Although one cohort study on carbon black production workers showed slight excesses of lung cancer, the totality of the epidemiological studies both in the carbon black production industry and in some user industries suggested that there is inadequate evidence for the carcinogenicity in humans of carbon black. Carbon black was thus evaluated as possibly carcinogenic to humans (Group 2B).

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