



Material Safety Data Sheet

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Emergency Assistance
24 Hour Emergency Telephone Numbers:
USA: UOP 708/391-2123
Chemtrec 800/424-9300
Canada: Canatrec 613/996-6666
Outside USA: Chemtrec 202/483-7616

PRODUCT NAME

MEROX FB[®]
REAGENT

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INGREDIENTS

<u>MATERIAL</u>	<u>(CAS NO.)</u>	<u>WT(%)</u>	<u>1988-89 ACGIH TLV-TWA</u> <u>(OSHA PEL)</u>
Cobalt phthalocyanine sulfonate (cobalt compound)*		28	0.05 mg/m ³ (0.05 mg/m ³) [Cobalt metal, dust and fume (as CO)]
Water	(7732-18-5)	72	None established

Governmental Inventory Status: All components registered in accordance with TSCA.

*This chemical is subject to the reporting requirements of Section 313 of the Emergency Planning and Community-Right-To-Know Act of 1986 and of 40 CFR 372. This information must be included in all MSDSs that are copied and distributed for this material.

TRANSPORTATION CLASSIFICATION

DOT Hazard Class: Not regulated
IMO Hazard Class: Not regulated

PHYSICAL DATA

Boiling Point, °F (°C): 212 (100) % Volatiles, by Weight: 72
Specific Gravity, g/ml @ 60°F: 1.15 Solubility in Water: Not complete
Appearance: Dark blue gelatinous dispersion Odor: Odorless

FIRE AND EXPLOSION DATA

Flash Point, °F (°C): Not applicable
Special Fire Fighting Equipment: Area may be entered freely with self-contained breathing apparatus that provides eye protection
Extinguishing Media: Water fog, foam, CO₂, dry chemical
Fire and Explosion Hazards: Fire may produce poisonous gases (i.e., HCN, SO_x, NO_x, CO)

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REACTIVITY DATA

Stability:	Stable to 300°C
Conditions to Avoid:	Temperatures above 300°C
Hazardous Decomposition Products:	HCN, SO _x , NO _x , CO
Hazardous Polymerization:	Will not occur
Incompatible Materials:	Active chlorine; strong oxidizers

SPILL OR LEAK PROCEDURE

Large Spills: Immediately isolate the affected area and keep out all unauthorized personnel. Confine entry to those persons who are properly protected.

Stop leak at the source. If possible, reposition, plug, or encapsulate the container to stop further leakage. Cut off and redirect surface runoff by trenching or diking.

Spills should be contained through the use of a commercial aqueous absorbent, but other materials such as earth, sand, or sawdust may be more expedient to limit the extent of contamination.

Clean contaminated surface with a generous amount of aqueous absorbent, soaking up as much liquid as possible. Contaminated material should be disposed in accordance with waste disposal regulations. Refer to WASTE DISPOSAL section.

Small Spills: Wear proper protective equipment. Absorb spilled material using a commercial aqueous absorbent soaking up as much material as possible. Contaminated material should be disposed in accordance with waste disposal regulations. See WASTE DISPOSAL section.

WASTE DISPOSAL

Merox FB waste, including concentrated solutions, contaminated absorbent, and materials from spill clean-up procedures, must be handled in accordance with federal, state and local regulations. Although Mercox FB and its components are not listed either by generic name or by trademark name in the U.S. EPA's Hazardous Waste Regulations, UOP recommends that Mercox FB reagent be disposed as hazardous waste, because the reagent has been shown to have a mutagenic potential. Recommended disposal practices include incineration or waste treatment at permitted facilities.

HEALTH HAZARD DATA

Primary Routes Of Exposure:	Contact with skin or eyes. Product ingestion is unlikely but may occur if proper safety/hygiene procedures are not followed. Exposure may also occur via inhalation or ingestion if the product
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is heated or if the product is misted or sprayed during handling and/or processing. In order to minimize exposure to product, proper equipment should be used and proper safety/hygiene procedures should be followed.

Acute Oral LD₅₀:

3.6 g/kg (rat)

Acute Inhalation LC₅₀:

The Acute Inhalation LC₅₀ is undetermined. Testing was conducted on the powdered active ingredient. The highest dosage level achieved (due to the physical nature of the powder) was 1.05 mg/l; at this dosage level, two test animals (rats) out of ten died.

Acute Dermal LD₅₀:

>2 g/kg (rabbit)

Primary Eye Irritation:

Draize eye score: Nonrinsed - 98 max/110 possible extending through 13 days; rinsed - 9 max/110 possible (rabbit).

Primary Dermal Irritation:

Index - 0.4 (rabbit)

Genetic Toxicology:

Weakly mutagenic in the L5178YTK+/-mouse lymphoma cell in vitro assay.

Summary:

Slight acute toxicity. Slight to moderate irritant to skin and pulmonary system. Primary eye irritant. Mutagenic in the test system used.

FIRST AID

Skin:

Wash contaminated skin with soap and water. Merox reagent intensely stains skin and is very difficult to remove. A soft hand brush may aid in the removal of Merox reagent from skin. A mechanics waterless skin cleaner may also be used to decontaminate skin. Residual color will eventually wear off. DO NOT use bleach to decolorize skin.

Eyes:

Flush with large amounts of water for a minimum of 15 minutes. Obtain prompt medical attention.

Inhalation:

Remove from contaminated area. Obtain professional medical attention.

Ingestion:

INDUCE VOMITING. Obtain immediate medical attention.

Note To Physician:

Eyes:

Rinse eye for 15 minutes. Stain to check for corneal damage in severe cases.

Skin:

Treat minor cases as contact dermatitis.

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Ingestion: If the patient is conscious, induction of vomiting or gastric lavage to empty the stomach contents is advised. Administer 2-4 tablespoons of U.S.P. activated charcoal mixed with 6 ounces of water, followed by a hypertonic laxative.

PROTECTIVE EQUIPMENT

Skin: Impervious protective clothing such as pants, jacket, apron, rubber gloves, rubber footwear.

Eye: Splash-proof goggles or face shield as necessary to prevent eye contact.

Other: Do not eat, drink or smoke in areas where the product is handled. It is recommended that if physical contact with product occurs: 1) personal protective clothing should then be decontaminated by washing with detergent and chlorinated bleach; 2) other personal protective clothing should also be cleaned, according to manufacturer's instructions; 3) persons should shower before putting on clean work or street clothing.

SPECIAL PRECAUTIONS

Do not reuse empty containers. Rinse the container with water, adding the rinsings to the Mercox unit to recover all active ingredients.

NOTE: If further details are required, please address inquiries to:
Product Stewardship Coordinator
Environmental Sciences Group
UOP, 25 East Algonquin Road, Des Plaines, IL 60017-5017
(708) 391-3189

24 HOUR EMERGENCY TELEPHONE NUMBER (708) 391-2123

The data and recommendations presented in this data sheet concerning the use of our product are believed to be accurate and are based on information which is considered reliable as of the date hereof. However, the customer should determine the suitability of such materials for his purpose before adopting them on a commercial scale. Since the use of our products by others is beyond our control, no guarantee, express or implied, is made and no responsibility assumed for the use of this material or the results to be obtained therefrom. Information on this form is furnished for the purpose of compliance with Government Health and Safety Regulations and shall not be used for any other purposes. Moreover, the recommendations contained in this data sheet are not to be construed as a license to operate under, or a recommendation to infringe, any existing patents, nor should they be confused with state, municipal or insurance requirements, or with national safety codes.

UOP Date: January 1989

Revision: 2

Supercedes: May 1986

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