

MATERIAL SAFETY DATA SHEET

COMPLIES WITH OSHA'S 29 CFR 1910, 1200 AND STATE HAZARD COMMUNICATION STANDARD

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24 HOUR EMERGENCY PHONE NUMBER 1-800-424-9300 (CHEMTREC)

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: Briteguard Blue 1L
GENERAL OR GENERIC ID: Zinc Chromate
DATE PREPARED: 6/2/92
LATEST REVISION DATE: 6/11/97
NFPA/HMIS HAZARD CODES
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
HEALTH: 3/3 FIRE: 0/0 REACTIVITY: 1/1 SPECIAL: NA

SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDLH LEVEL	% /WT
*Chromic Acid	7738-94-5	1mg/m ³	1mg/m ³	30mg/m ³	5
*Nitric Acid	7697-37-2	2mg/m ³	5mg/m ³	100ppm	50
*Sulfuric Acid	7764-93-9	1mg/1m ³	1mg/m ³	80mg/m ³	5
Ammonium Bifluoride	1341-49-7	N/A	2.5mg/m ³	N/A	<15

*= Reportable under SARA Title III

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: >212°F
VAPOR PRESSURE: N/A
SOLUBILITY IN WATER: complete
VAPOR DENSITY: N/A
APPEARANCE AND COLOR: Reddish liquid with pungent odor.

SPECIFIC GRAVITY: 1.3
EVAPORATION RATE: <1
PERCENT VOLATILE: 30

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: not flammable
EXTINGUISHING MEDIA: Water fog, carbon dioxide, alcohol foam, dry chemical and Halon.
SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand, self contained respiratory protection and protective clothing should be worn by firefighters. Move container from area if possible. Apply cooling water to sides of container that are exposed to flames well after fire is out.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Contact with strong reducing agents may explode.

SECTION 5: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY: Keep away from alkaline materials, organic, combustibles.
CONDITIONS TO AVOID: Plastics, strong alkalis and oxidizers. Store away from organic materials.
HAZARDOUS DECOMPOSITION PRODUCTS: Chromium oxides, oxides of sulfur could evolve.

SECTION 6: HEALTH HAZARD DATA

ROUTINE OF ENTRY/SIGNS OF SYMPTOMS OF OVER EXPOSURE:
ACUTE: Corrosive to eyes and skin, concentrated solutions can destroy tissue on contact. Can cause blindness. Causes skin ulcers, and dermatitis.

INGESTION: Harmful if swallowed. Can cause severe burns and complete perforation of mucous membranes to the mouth, throat, esophagus and stomach if swallowed.

INHALATION: Mist or dust at high levels may cause irritation to the nose, throat and lungs. May cause damage to the upper respiratory tract.

CHRONIC EFFECTS: None known

CARCINOGENS: Recent studies indicate an increased incidence of respiratory cancers among long-term employees of the chromate producing industry. The NIOSH criteria document for hexavalent chromium recommends that all chromium (IV) compounds be considered suspect carcinogens except Chromic Acid and its ammonium, sodium, potassium and lithium salts. Nevertheless, some investigators believe that these soluble hexavalent compounds may present a carcinogenic risk under special circumstances. As long as uncertainties exist, good practice dictates precautions to minimize worker exposure.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known.

EMERGENCY AND FIRST AID PROCEDURES:

EYES: Immediately flush with plenty of water for 15 minutes. See a physician.

SKIN: Wash with soap and water. Remove contaminated clothing. See a physician if irritation occurs.

INHALATION: Remove to fresh air. If breathing has stopped start artificial respiration. See a physician.

INGESTION: Call a physician immediately, **DO NOT INDUCE VOMITING DILUTE BY DRINKING WATER (MILK IF AVAILABLE) NEVER GIVE LIQUIDS TO AN UNCONSCIOUS PERSON.**

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES:

SMALL SPILLS: Flush to treatment system with large amounts of water.

LARGE SPILLS: Sweep up into suitable containers. Keep out of fish bearing waters.

WASTE DISPOSAL METHOD: Dump to waste water treatment system, observe local, state and federal regulations. Product is hazardous waste.

SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION:

DOT HAZARD CLASS: 8

SHIPPING NAME: Corrosive liquid, acidic, inorganic n.o.s. (Chromic Acid)

ID NUMBER: UN 3264

PACKING GROUP: II

LABELS: 8

TSCA: All components included in the inventory.

SECTION 9: HANDLING AND STORAGE

HANDLING AND STORING: Keep container closed when not in use.

OTHER PRECAUTIONS: Keep out of reach of children. Store in proper chemical storage area.

If water pollution occurs, notify the proper authorities.

SECTION 10: CONTROL MEASURES

RESPIRATORY PROTECTION: Use NIOSH approved respiratory equipment for dust and mist.

VENTILATION: Local exhaust to maintain air contamination below TLV limit.

GLOVES: Rubber gloves, neoprene, or synthetic rubber required.

EYE PROTECTION: Safety glasses or goggles required.

OTHER PROTECTIVE EQUIPMENT: As needed to prevent prolonged or repeated skin contact. Eye wash fountain and safety shower in work area.

WORK /HYGIENIC PRACTICES: Launder contaminated clothing before reuse.

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