

MATERIAL SAFETY DATA SHEET

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

A BRITE COMPANY
3217 WOOD DRIVE
GARLAND, TEXAS 75041
214-291-0400

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

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: Steelcote 374
GENERAL OR GENERIC ID: Acid Mixture
DATE PREPARED: 5/18/04
LATEST REVISION DATE: 5/18/04
NFPA/HMIS HAZARD CODES
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
HEALTH: 2/2 FIRE: 0/0 REACTIVITY: 0/0 SPECIAL: H

SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDLH LEVEL	% WT
*Phosphoric Acid	7664-34-2	1 mg/m ³	1mg/m ³	ND	15
*Nitric Acid	7697-37-2	2 ppm	5mg/m ³	100 ppm	4
*Sulfuric Acid	7664-93-9	1mg/m ³	1mg/m ³	80mg/m ³	1.6
Ammonium Bifluoride	1341-49-7	2.5mg/m ³	2.5mg/m ³	ND	<1
Sodium Hydroxide	1310-73-2	2 mg/m ³	2 mg/m ³	250mg/m ³	<20
Polyethylene phenyl ether phosphate	Not listed	N/A	N/A	N/A	<5

*= Reportable under SARA Title III

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: N/A
VAPOR PRESSURE: N/A
VAPOR DENSITY: Negligible
SOLUBILITY IN WATER: complete
APPEARANCE AND COLOR: Clear to light yellow liquid with no odor.

SPECIFIC GRAVITY: 1.16
PERCENT VOLATILE: N/A
EVAPORATION RATE: N/A
pH (1% Solution): 2.6

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.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Non combustible material. Will liberate flammable hydrogen gas upon contact with many metals.

SECTION 5: REACTIVITY DATA

STABILITY: Stable
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY: Reacts vigorously with alkalis producing heat. Reacts with many metals producing heat and hydrogen gas.
CONDITIONS TO AVOID: Under normal conditions product is stable.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, toxic fumes of phosphorus pentoxide.

SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY /SIGNS AND SYMPTOMS OF EXPOSURE:

ACUTE: Corrosive to eyes and skin, concentrated solutions can destroy tissue on contact. Can cause blindness.

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

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

CHRONIC EFFECTS: None known

CARCINOGENS: None under OSHA, IARC or NTP.

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 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, EPA Hazard Code (c,R) EPA Hazardous Waste Number D002, due to pH.

SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION:

DOT HAZARD CLASS: 8

SHIPPING NAME: Corrosive liquid, acidic, inorganic n.o.s (Phosphoric Acid, Nitric Acid, Sulfuric 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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