

MATERIAL SAFETY DATA SHEET

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

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

SECTION 1: PRODUCT IDENTIFICATION

TRADE NAME: Aldeox 171
GENERAL OR GENERIC ID: Compound, Acid Mixture
DATE PREPARED: 9/02/05
LATEST REVISION DATE: 4/30/07
NFPA/HMIS HAZARD CODES
(minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
HEALTH: 3/3 FIRE: 0/0 REACTIVITY: 1/1 SPECIAL: F

SECTION 2: HAZARDOUS INGREDIENTS IDENTITY INFORMATION

HAZARDOUS COMPONENTS	CAS #	OSHA PEL	ACGIH TLV	IDLH LEVEL	% WT
Ferric Nitrate	10421-48-4	N/A	1mg/m ³	N/A	<35
*Nitric Acid	7697-37-2	2 ppm	5 mg/m ³	1000ppm	18
*Sulfuric Acid	7664-93-9	1mg/m ³	1mg/m ³	80mg/m ³	4
Fluoboric Acid	16872-11-0	2mg/m ³	2mg/m ³	500mg/m ³	<5

*= Reportable under SARA Title III

SECTION 3: PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 212°F SPECIFIC GRAVITY: 1.22
VAPOR PRESSURE: 760 mm PERCENT VOLATILE: 35
VAPOR DENSITY: <1 EVAPORATION RATE: As water
SOLUBILITY IN WATER: complete
APPEARANCE AND COLOR: Light brown liquid with pungent odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: not flammable FLAMMABLE LIMITS: N/A
EXTINGUISHING MEDIA: Water fog, carbon dioxide, alcohol foam, dry chemical.
SPECIAL FIRE FIGHTING PROCEDURES: Pressure demand, self contained respiratory protection and protective clothing should be worn by firefighters in areas where chemical products are stored.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Non combustible material, liquid form in contact with water may generate sufficient heat to ignite combustible or flammable materials. Contact with white metals such as zinc, aluminum, tin or alloys of these metals can generate explosive hydrogen gas. Contact with copper and copper alloys may generate oxides of nitrogen.

SECTION 5: REACTIVITY DATA

STABILITY: Stable HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY: Alkali, white metals such as zinc aluminum, tin, copper and alloys of those materials. Combustible organics, oxidizable matter, hydrogen sulfide, chromic acid, sodium persulfate, chlorates and picrates.
CONDITIONS TO AVOID: Splashing or dropping of strong alkali on product. Spilling of product on metals or strong alkalis.
HAZARDOUS DECOMPOSITION PRODUCTS: Oxides of nitrogen, or hydrogen gas may evolve.

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 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: 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.

SECTION 8: TRANSPORTATION AND LABELING

REGULATORY INFORMATION:
DOT HAZARD CLASS: 8
SHIPPING NAME: Corrosive liquids, oxidizing, n.o.s., (Sulfuric Acid, Nitric Acid, Fluoroboric Acid)
ID NUMBER: UN 3093
PACKING GROUP: II
LABELS: 8, 5.1
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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