

MATERIAL SAFETY DATA SHEET

Section 1 – PRODUCT/MANUFACTURER'S IDENTIFICATION

PRODUCT NAME: **Safe₂O[®] RTE 03** EMERGENCY NUMBER: **800-424-9300**
MSDS NUMBER: 14031 PRODUCT USE:
VERSION NUMBER: 1.6 DOT HAZARD CLASS: 8
ISSUE DATE: 04/04/03 DOT SHIPPING NAME: Corrosive liquid, Acidic, organic, N.O.S.
REVISION DATE: 11/06/03 UN NUMBER: 3265
PREPARED BY: Mionix Corporation PACKING GROUP: II
MANUFACTURER: **Mionix Corporation**
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		HAZARD RATING
1	HEALTH	
0	FIRE	4 = Extreme
1	REACTIVITY	3 = High
C	MINIMUM PERSONAL PROTECTION	2 = Moderate
		1 = Slight
		0 = Insignificant

A=Goggles B=Goggles & Gloves C=Goggles, Gloves & Apron

ABBREVIATION KEY: NA = Not Applicable NE = Not Established ND = Not Determined

Section 2 – HAZARDOUS INGREDIENTS INFORMATION

HAZARDOUS CHEMICAL IDENTITY	CAS REG#
Water	NA
Propionic Acid	79-09-4
Lactic Acid	50-21-5
Acidic Calcium Sulfate	NA

Section 3 – PHYSICAL DATA

BOILING POINT: 104°C SPECIFIC GRAVITY (H₂O = 1.0): 1.07-1.09 pH: ≤2.0
PHYSICAL STATE: Liquid APPEARANCE: Clear to slightly cloudy ODOR: Pungent

Section 4 – FIRE AND EXPLOSION DATA

FLASH POINT: >240° F EXTINGUISHING MEDIA: Water, alcohol foam, CO₂, dry chemical, water/fog spray
AUTO IGNITION TEMP: NA SPECIAL FIRE FIGHTING PROCEDURES: Exercise caution when fighting any chemical fire. Use NIOSH-approved self-contained breathing apparatus and full protective clothing.
FLAMMABLE LIMITS IN AIR: NA UNUSUAL FIRE AND EXPLOSION HAZARDS: NA

Section 5 – HEALTH HAZARD DATA

ROUTES OF ENTRY/EFFECTS OF OVEREXPOSURE

EYES: Causes chemical burns. Immediately flush with clean water.

SKIN: Causes chemical burns. Immediately flush with clean water.

INHALATION: Minimal respiratory irritation where ACGIH Threshold Limit Value (TLV): of propionic acid is < 10 ppm (TWA). Where propionic acid ACGIH Threshold Limit Value (TLV): of propionic acid is > 10 ppm (TWA), A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details. If the exposure limit is exceeded and engineering controls are not feasible, a full facepiece respirator with organic vapor cartridge may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. For emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

INGESTION: In concentrated form, may cause nausea, vomiting, and abdominal pain. Contact a physician immediately.

CARCINOGEN EFFECTS: None.

TOXICITY INFORMATION FOR PRODUCT COMPONENTS: Same as Calcium Sulfate and Sulfuric Acid.

REPRODUCTIVE TOXICITY: NA

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: If vaporized by boiling, may cause chronic bronchitis and pulmonary edema and erosion/discoloration of teeth.

Skin contact: Wash with copious amounts of water.

Section 5 – HEALTH HAZARD DATA - Continued

Ingestion: Medical aid should be given only on advice of a qualified medical person. Give water; do not induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration into lungs.

Eye Contact: Flush eye with copious amounts of water for at least 15 minutes. Hold eyelids apart to ensure rinsing. Seek immediate medical attention.

Section 6 – REACTIVITY

CHEMICAL STABILITY:	Stable	CONDITIONS TO AVOID:	Boiling and Freezing
HAZARDOUS DECOMPOSITION PRODUCTS:	None known	MATERIALS TO AVOID:	None
HAZARDOUS POLYMERIZATION:	No		

Section 7 – SPILL AND LEAK PROCEDURES

STEPS TO TAKE IF MATERIAL IS RELEASED OR SPILLED

SMALL SPILLS: Dilute with water LARGE SPILLS: Neutralize with 3–10 volumes of 0.2 M Sodium or Potassium Bicarbonate
WASTE DISPOSAL PROCEDURES: Neutralize (Waste products are calcium sulfate, CO₂, calcium lactate and H₂O)

Section 8 – PROTECTIVE EQUIPMENT TO BE USED

RESPIRATORY PROTECTION: See Section 5 under "Inhalation."

EYE PROTECTION: Safety glasses or goggles should be worn if there is a possibility of eye contact.

PROTECTIVE CLOTHING: Where splashing is possible, wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Section 9 – SPECIAL PRECAUTIONS AND COMMENTS

HANDLING AND STORING: Do not allow to freeze.

OTHER: Do not allow to come in contact with strong base, hypochlorite bleach solution or any strong oxidizers.

Section 10 – SARA SECTION 313 SUPPLIER NOTIFICATION

This product contains the following toxic chemicals subject to the reporting requirements of SARA Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 and 40 CFR 372:
NONE LISTED

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