

MATERIAL SAFETY DATA SHEET

Revision Date: 7/18/2002

MSDS No.: FL-1003

Emergency Phones: 630-559-9500 (Ricmar)

(800) 535-5053 INFOTRAC

PLEASE NOTE: This MSDS is being provided to your company for the purpose of providing current health and safety information to your management and for your employees who work with this material. Please read the information on these sheets, and then provide this information to those people at your company whose responsibility it is to comply with FEDERAL and STATE RIGHT-TO-KNOW regulations. Also make this information available to any employee who requests it. It is your obligation to comply with these regulations.

SECTION I - PRODUCT IDENTITY

PRODUCT NAME: Re-Ox Inhibited Cleaner

Formula: Mixture, water, hydrochloric acid, additives

Chemical Type: Mineral acid and additives

HMIS RATINGS

Health = 3 (Serious)	Flammability = 0 (Insignificant)
Reactivity = 0 (Minimal)	Protection = C (Safety Glasses, Gloves, Synthetic Apron)

SECTION II - HAZARDOUS INGREDIENTS

	PERCENT	TLV	STEL	CARCINOGEN (OSHA, TP, IARC)
Hydrochloric Acid CAS # 7647-01-0	<10%	5ppm		none
2-butoxyethanol CAS # 111-76-2	<5%	25 ppm		

SECTION III - CHEMICAL AND PHYSICAL

Appearance: Aqua-Blue	Boiling Point: 210°F
Odor: butyl cellosolve and acid	Melting Point: N/A
pH: <1	Spec. Gravity (H ₂ O = 1): 1.04
Water Solubility: Complete	Vapor Pressure (mm Hg): N/A
Viscosity, Cp @ 25°C.: A-5 (Gardner)	VOC Content: 4%

SECTION IV - FIRE AND EXPLOSION HAZARDS

Flash Point (Method): none	Explosion Limits: Upper: N/A Lower: N/A
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Extinguishing Media: N/A (product is non-flammable)

Special Firefighting Procedures and Hazards: Avoid skin and eye contact, and breathing of acid vapors. Wear head and body protection and HCl respirator if exposure to liquid is likely.

SECTION V - REACTIVITY INFORMATION

Stable: Unstable:

Precautions:

Incompatibility: Strong alkalis, materials not resistant to strong acids, active metals (zinc, aluminum, magnesium, etc).

Hazardous Decomposition Products: Hydrogen chloride vapors. Contact with active metals can release flammable gas

Hazardous Polymerization: Occurs: Does Not Occur:

SECTION VI - HEALTH HAZARDS - PROTECTIVE MEASURES - FIRST AID

- Inhalation:** Breathing of vapor can cause respiratory irritation and inflammation.
- Skin:** Corrosive. Causes irritation and burns. Wear acid-resistant protective gloves, boots, and clothing. Provide convenient safety showers. Prolonged contact with 2-butoxyethanol may result in the absorption of potentially harmful amounts leading to possible liver and kidney damage. Remove contaminated clothing. Flush skin thoroughly with water for 15 minutes. Get medical attention if burns persist.
- Eyes:** Corrosive. Causes eye damage. Wear splash proof goggles. Provide convenient eyewash stations. Flush immediately with water for 15 minutes. Get prompt medical attention.
- Ingestion:** Corrosive. Causes irritation and burning in mouth and throat. Wear face shield (or respirator). Avoid swallowing. Drink lots of water or, preferably, milk. Get medical attention if effects persist. Do not induce vomiting.

Most likely routes of entry: Skin, Eyes, Inhalation

Other Important Medical or Precautionary Information: None

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Spills and Leaks: Small spills can be flushed into normal drainage or into ground with copious amounts of water, or taken up with absorbent material. Larger spills should be contained by diking or other methods and held for collection and/or reuse, or for neutralization with alkali before collection and disposal. Personnel should use eye and skin protection.

Storage and Handling: Check daily for any leaks from containers, vessels, pumps, and piping. Have water hoses and alkali (caustic soda, lime, etc.) convenient. Only use containers and equipment designed for acid service. Use a respirator if area is poorly ventilated.

Waste Disposal: If neutralized, may be disposable in sewers if local regulations permit. Otherwise, send to licensed treatment and disposal facility. As supplied, this product is a RCRA hazardous waste.

Empty Containers: Rinse well before handling and disposal.

Other Precautions: Areas of use and storage should be ventilated adequately to reduce vapors below odor level.

SECTION VIII - REGULATORY INFORMATION

Reportable for SARA Title III, S.313 (Form R): Hydrochloric acid

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