



Max Neutralizer

Laundry Sour

DESCRIPTION

Max Neutralizer is a concentrated liquid laundry neutralizing agent that effectively neutralizes the residual alkalinity present in commercial and institutional laundering processes. **Max Neutralizer** is also an effective rust removing agent that prevents the yellowing and discoloration caused by high iron in the wash water.

SPECIAL INFORMATION

Strong acid - avoid contact with eyes and skin. Do not breathe **Max Neutralizer's** vapors and keep container tightly closed. Store upright at temperatures above freezing and do not mix with Bleach or any other cleaners.

DIRECTIONS

Max Neutralizer can be dispensed directly from the shipping container by your liquid laundry injection system. For specific applications, please check with your *M-chem* representative.

For best working results:

- Flat work - neutralize to pH 6.0-6.5
- White apparel - neutralize to pH 5.0-5.5
- Colored work - neutralize to pH 4.5-5.0

PHYSICAL DATA

Appearance	Clear violet liquid
Color	Colorless
Foam	None
Odor	Mild acidic
pH	0.5 - 1.5

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **MAX NEUTRALIZER**

WHMIS CODE: E
 Proper Shipping Name: CORROSIVE LIQUID, N.O.S.
 (phosphoric acid, citric acid)
 Hazard Class: Class 8, P.G. II
 UN Number: UN 1760

HMIS	
3	Health
0	Flammability
0	Reactivity
C	Personal

Product Use: *Liquid laundry sour.*

M-chem Technologies Inc.
 1607 Derwent Way
 Delta, BC V3M 6K8, Canada
 Phone: (604) 526-5655

EMERGENCY PHONE
 Canada: Canutec 613-996-6666
 U.S.A.: Chemtrec 800-424-9300

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

ABBREVIATION KEY: N/A=Not Applicable, N/E=Not Established, N/D=Not Determined, > =Greater Than

SECTION 2 – HAZARDOUS INGREDIENTS INFORMATION

INGREDIENT	CAS NO.	RANGE %	PEL	TLV
Orthophosphoric Acid Exposure Limits: ACGIH TLV 1ppm LD50 (oral, rat) 3500 mg/kg LD50 (dermal) 1260 mg/kg	7664-38-2	30.0-40.0%	1 ppm	1 mg/m3
Citric Acid LD50 (oral, rat) 5040 mg/kg	77-92-91	5.0-10.0%	2.5ppm (F)	2.5ppm (F)
1-Hydroxyethylidene 1,1-Disphosphonic Acid LD50 (oral, rat) 1800 mg/kg LD50 (dermal) Not Available	2809-21-4	1.0-5.0%		

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear violet, acidic odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 1.8 @ 3.1% solution.
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.23 @ 20°C.
Coef. Water/Oil Dist: Greater than 1.0 **Evaporation Rate:** N/D **Solubility in Water:** Soluble **Odor Threshold:** No Data

SECTION 4 – FIRE AND EXPLOSION HAZARD DATA

Flash Point and Method: Non-flammable. **Sensitivity to Mechanical Impact:** None. **Conditions of Flammability:** None.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Extinguishing Media: Product is not flammable. Use extinguishing media suitable for surrounding fires.
Unusual Fire and Explosion Hazards: Thermal decomposition may liberate flammable, corrosive, and toxic gases. Also, may react with some metals to form flammable hydrogen gas.
Hazardous Combustion Products: Oxides of carbon, toxic/corrosive vapors/gases upon thermal decomposition.
Special Fire Fighting: Wear full protective equipment, including a NIOSH/MSHA approved, self-contained breathing apparatus for fire fighting situations. Use water spray to cool all nearby fire exposed surfaces.

SECTION 5 – REACTIVITY DATA

Chemical Stability: Stable under normal storage conditions. **Hazardous Polymerization:** Will not Occur.
Incompatibility (material to avoid): Strong oxidizers and alkaline, metals, concrete, glass.
Hazardous Decomposition Products: Oxides of carbon, toxic/corrosive vapors/gases upon thermal decomposition.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Routes of Entry:** Skin, eyes, inhalation.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Sensitization: None known. **Mutagenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Reproductive Toxicity:** None known.
Teratogenicity: None known.
Effects of Chronic Exposure: Repeated contact with concentrated product will cause skin damage.
Effects of Acute Exposure to Product: Corrosive: Causes damage to eyes and skin in concentrated form.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: Use a NIOSH/MSHA approved mist/vapor respirator if product dust is generated.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural, butyl rubber, nitrile, or neoprene gloves. **Eye Protection:** Chemical goggles, safety goggles or face shield.
Protective Clothing and Equipment: Long sleeve coveralls. Eye wash recommended in the immediate work area.
Storage and Handling Procedures: Store in a cool, dry place away from incompatible materials. Keep container closed when not in use. Do not mix with any other chemicals. Avoid contact with skin, eyes and clothing. Use good industrial hygiene. Store at temperatures below 30°C (86°F), and keep from freezing.
Disposal Procedures for Spills or Leaks: Wear protective equipment. Dike and contain large spill, absorb spills into sand or inert absorbent compound. Scoop into approved waste containers for disposal. Neutralize residue with sodium bicarbonate or soda ash. Keep away from sewers and natural waters.
Waste Disposal Method: Reuse if possible, or otherwise dispose recovered material in accordance with all local, Provincial or Federal Regulations.
Special Shipping Information: Do not place adjacent to chlorine/chlorite containing products. Physically separate the containers. Store at temperatures below 30°C (86°F), and keep from freezing.

SECTION 8 – EMERGENCY FIRST AID PROCEDURES

First Aid:
 If swallowed, give plenty of clean water to drink to dilute product. Do not induce vomiting. Call a Physician. In case of contact with eyes, flush with clean water for 15 minutes. Get medical attention. For contact with skin, wash with clean water and rinse well. If irritation occurs or persists, get medical attention.

PREPARATION DATA

PREPARED BY: Technical Service / Regulatory Division PHONE: 604-526-5655 LAST UPDATE: 07/04/11
 THE INFORMATION PROVIDED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN OBTAINED FROM CURRENT SOURCES AND IS BELIEVED TO BE RELIABLE