



Max Pro Detergent

Machine Detergent

DESCRIPTION

Max Pro Detergent is a highly concentrated, heavy-duty alkaline detergent specifically designed for both high and low temperature dish wash machines and bar glass washers. **Max Pro Detergent** is also a highly effective canopy cleaner in automatic hood and vent cleaning systems.

SPECIAL INFORMATION

Max Pro Detergent is a Canadian Food Inspection Agency (CFIA) approved product for use in registered food processing plants.

DIRECTIONS

Glasswashing:

Dispensed directly from shipping container into the machine by the automatic dispensing system at preset concentrations. Must be rinsed and sanitized after washing with an approved rinse/sanitizing agent such as *Sanidine*.

Dishwashing:

Dispensed directly from shipping container into the machine by the automatic dispensing system at preset concentrations. Best results are achieved with the water temperature between 60°C – 65°C (140°F - 150°F).

Automatic Hood/Filter Systems:

Automatically dispensed, usually by timer in preset concentrations to keep systems grease-free and prevent blockage problems.

Please consult your *M-chem* representative for specific recommendations to meet your particular needs.

PHYSICAL DATA

Appearance	Clear liquid
Color	Orange-red
Foam	None
Odor	Mild to none
pH	13.0 – 14.0

MATERIAL SAFETY DATA SHEET

SECTION 1 – PRODUCT/MANUFACTURER'S IDENTITY

Product Name: **MAX PRO DETERGENT** WHMIS CODE: E
 Proper Shipping Name: CAUSTIC ALKALI LIQUID, N.O.S.
 (potassium hydroxide)
 Product Use: *Universal machine detergent.* Hazard Class: Class 8, P.G. II
 UN Number: UN 1719

HMIS	
3	Health
0	Flammability
0	Reactivity
C	Personal

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

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

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
POTASSIUM HYDROXIDE	1310-58-3	10.0 - 15.0	N/A	2 ppm
LD50 (oral rat) 273 mg/kg				
LD50 (dermal) Not Available				
LC50 Not Available				
SODIUM SILICATE	1349-09-8	1.0-5.0	N/D	N/D
LD50 (oral rat) 1500 mg/kg				
LD50 (dermal) No Data				
LC50 No Data				

SECTION 3 – PHYSICAL DATA

Color and Odor: Clear red, mild odor. **Boiling Point:** N/D **Vapor Pressure (mm HG):** N/D **pH:** 13.0 – 14.0
Physical State: Liquid. **Melting Point:** N/A **Vapor Density:** N/D **Specific Gravity:** 1.25 @ 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: None to 100°C (TCC) **Sensitivity to Mechanical Impact:** None. **Extinguishing Media:** Not flammable.
Flammable Limits: None known. **Sensitivity to Static Discharge:** None. **Auto ignition Temperature:** None known.
Conditions of Flammability: None.
Unusual Fire and Explosion Hazards: Flammable hydrogen gas may liberate upon prolonged contact with sensitive metals (i.e. aluminum, zinc, etc.).
Hazardous Combustion Products: Decomposition may produce oxides of carbon, phosphorus, and other unidentifiable organic compounds.
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 acids.
Hazardous Decomposition Products: Decomposition may produce oxides of carbon, phosphorus, and other unidentifiable organic compounds.

SECTION 6 – TOXICOLOGICAL DATA

Exposure Limits: See Section 2 under Hazardous Ingredient. **Teratogenicity:** None known.
Routes of Entry: Skin and eyes contact, and inhalation. **Sensitization:** None known.
Irritancy of Product: Corrosive to skin, eyes and respiratory system. **Carcinogenicity:** None known.
Name of Toxicological Synergistic Product: None known. **Mutagenicity:** None known.
Reproductive Toxicity: None known.
Effects of Chronic Exposure: Prolonged or repeated exposure may cause skin irritation or dermatitis.
Effects of Acute Exposure to Product: Product exposure may burn eyes and irritate or burn skin. Prolonged inhalation of vapors or mists may cause breathing problems, headaches and nausea. Also, may be harmful if absorbed through skin. Ingestion may cause gastro-intestinal and abdominal discomfort, and symptoms similar to inhalation.

SECTION 7 – PREVENTATIVE AND CONTROL MEASURES

Respiratory Protection: If product is misted or sprayed, or used in a confined area, use a NIOSH/MSHA approved dust/mist respirator.
Ventilation: Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.
Protective Gloves: Natural or 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: Use good industrial hygiene. Do not get in eyes. Avoid contact with skin and clothing. Avoid breathing sprays or mists. Store in a cool, dry place away from incompatibles. Keep container closed when not in use. Do not mix with any other chemicals. 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 spills. Pump spills into an approved waste container. For small spills, soak up with a suitable absorbent such as clay, soil or commercially available absorbents, and then dispose of into an approved waste container. Keep away from sewers and out of 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: 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