

SECTION 1 IDENTIFICATION

Product Trade Name: MASTER MHW
Recommended Use: Non-ferrous metal cleaner.
Restrictions on Use: Industrial and Institutional use only
Supplier: Pace Chemicals Ltd.
 1597 Derwent Way, Delta, BC, V3M 6K8, Canada
 Tel: 604-520-6211 Toll Free: 800-799-6211
Emergency Phone Number: Canada: Canutec 613-996-6666

SECTION 2 HAZARD IDENTIFICATION

Physical Hazards: CORROSIVE TO METALS
Health Hazards: SKIN CORROSION/IRRITATION - Category 1
 EYE DAMAGE/IRRITATION - Category 1
 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 3

Label Elements:

Signal word: Danger
Hazard Statement: H290 May be corrosive to metals.
 H314 Causes severe skin burns and eye damage.
 H318 Causes serious eye damage.
 H335 May cause respiratory irritation.

Precautionary Statements:

Prevention: P234 Keep only in original packaging.
 P260 Do not breathe dusts or mists.
 P264 Wash hands or affected area thoroughly after handling.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
 P271 Use only outdoors or in a well-ventilated area.
Responses: P390 Absorb spillage to prevent material damage.
 P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
 Rinse skin with water [or shower].
 P363 Wash contaminated clothing before reuse.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P310 Immediately call a POISON CENTER/doctor/physician.
 P321 Specific treatment (see supplemental first aid information on this label).
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P312 Call a POISON CENTER/ doctor if you feel unwell.
Storage: P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
 P406 Store in a corrosion resistant container with a resistant inner liner.
 P405 Store locked up.
Disposal: P501 Dispose of contents/ container to an approved waste disposal plant.

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	Approx. Wt.%	CAS Number
Sodium Metasilicate	53-54	6834-92-0

SECTION 4 FIRST-AID MEASURES

Inhalation: Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.
Skin Contact: Flood area with cool water for at least 20 minutes or until help arrives. Make sure water doesn't flow onto another part of the person's body or onto you. Don't use a strong

stream of water, if possible. As you flush the burn (not before), remove jewelry or articles of clothing with chemical on them, unless they're stuck to the person's body. Don't try to neutralize the burn with acid or alkali. This could cause a chemical reaction that worsens the burn. Don't put antibiotic ointment on the burn.

- Eye Contact:** Have the person immediately rinse the eye or eyes under a faucet, in a gentle shower, or with a clean container of water. Keep the person's face so that the injured eye is down and to the side. Avoid spraying a high-pressure water stream into the eye or eyes. Flush with lukewarm water for 15 to 30 minutes. For severe burns, continue flushing until you see a doctor or you arrive in an emergency room. The person should keep the eye open as wide as possible. Wash the person's hands thoroughly to make sure no chemical is still on them. Flush the eye to remove contact lenses. If they do not come out, try to gently remove them AFTER flushing. Do not rub the eye or place a bandage over the eye. While waiting for medical care, have the person wear sunglasses to decrease light sensitivity.
- Ingestion:** Do not induce vomiting. If the victim is fully conscious, give plenty of clean water to drink to dilute product. Never give anything by mouth if victim is unconscious, is rapidly losing consciousness, or is convulsing. Call a Physician.

SECTION 5 FIRE-FIGHTING MEASURES

- Extinguishing Media:** Water fog, alcohol foam, or dry chemical.
- Flammability:** Not flammable.
- Flash Point:** Not flammable.
- Special Firefighting Procedures:** As for surrounding fire.
- Unusual Fire / Explosion Hazards:** None known.
- Hazardous Decomposition Products:** Oxides of carbon, oxides of sodium.

SECTION 6 ACCIDENTAL RELEASE MEASURES

LEAK & SPILL PROCEDURE: Stop leak & ventilate area. Wear protective gear sufficient to stop body contact of spilled material. Pump spill into an approved waste container. For small spills soak up with a suitable absorbent and scoop into an approved waste container.

WASTE DISPOSAL PROCEDURE: Dispose of according to local municipal regulations.

SECTION 7 HANDLING AND STORAGE

HANDLING PROCEDURE & EQUIPMENT: 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. Handle with great care. Read label.

STORAGE REQUIREMENTS: Keep closed when not in use. Store locked up. Keep only in original container. Store in corrosive resistant container with a resistant inner liner.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

OSHA (PEL): N/A

ACGIH TLV: N/A

Other exposure limit: N/A

Appropriate Engineering Controls: Good general ventilation.

Individual Protection Measures / Personal Protective Equipment:

Gloves: PVC or Nitrile rubber.

Masks/Goggles: Chemical goggles or face shield.

Respirator: NIOSH approved mask or respirator when required.

Apron: Impervious (PVC or rubber) clothing recommended.

Boots: High rubber boots with heavy soles.

Other Protective Equipment: Eye wash, safety shower and full protective clothing recommended in the immediate work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White solid powder.
Odor:	Odourless. No added fragrance.
Odor threshold:	N/A
pH:	12.3 (3% solution)
Melting point/Freezing point:	N/A
Initial boiling point and boiling range:	N/A
Flash Point:	N/A
Evaporation Rate (Water=1):	N/A
Flammability:	Not flammable
Upper/Lower flammability or explosive limits:	None.
Vapor pressure:	N/A
Vapor density:	N/A
Relative density/Specific gravity (Water = 1):	N/A
Solubility(ies):	Soluble in water
Partition coefficient: n-octanol/water:	N/A
Auto-ignition temperature:	Not flammable
Decomposition temperature:	N/A
Viscosity:	N/A

SECTION 10 STABILITY AND REACTIVITY

Reactivity:	N/A
Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	N/A
Conditions to avoid:	Temperatures above 30°C (86°F) and below 5°C (41°F).
Incompatibility:	Fluorine, strong oxidizing agents, strong reducing agents, bases, metals, sulfur trioxide, phosphorus pentoxide.
Hazardous Decomposition Products:	Oxides of carbon, oxides of sodium.

SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Skin contact, skin absorption, eye contact, inhalation, ingestion.
Symptoms:	SKIN CONTACT: May cause severe burns to skin. EYE CONTACT: May cause burns & serve eye damage. INHALATION: Mists may be irritant & cause burns to the respiratory tract. INGESTION: May cause severe burns to the digestive system.
Acute Toxicity Estimates:	LD50(oral)>2000 mg/kg, LD50(dermal)>2000 mg/kg.
Carcinogenicity:	The ingredients of this product are not considered to be carcinogens by the National Toxicity Program, the International Agency for Research on Cancer or the Occupational Safety and Health Administration.

SECTION 12 ECOLOGICAL INFORMATION

Not required.

SECTION 13 DISPOSAL CONSIDERATIONS

Only dispose of according to local municipal regulations.

SECTION 14 TRANSPORT INFORMATION

Canadian TDG	
UN Number:	1759
UN Proper Shipping Name:	CORROSIVE SOLID, N.O.S. (Sodium Metasilicate Pentahydrate)
Transport Hazard Class(es):	8
Packing Group:	III

SECTION 15 REGULATORY INFORMATION

WHMIS 1988 Classification: E

SECTION 16 OTHER INFORMATION**Acronym List:**

ACGIH	American Conference of Governmental Industrial Hygienists
CFR	Code of Federal Regulations
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
MSHA	Mine Safety and Health Administration
N/A	Not Available
NIOSH	The National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
TDG	Transportation of Dangerous Goods
TLV	Threshold Limit Value
UN	United Nations
WHMIS	Workplace Hazardous Materials Information System

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PREPARED BY: Technical Service
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