

<b>SECTION 1 IDENTIFICATION</b>
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<b>Product Trade Name:</b>	Metal Safe Liquid
<b>Recommended Use:</b>	Non-chlorinated, non-caustic, soft metal safe cleaner/degreaser
<b>Restrictions on Use:</b>	For Industrial, Institutional and Food Plant use only
<b>Manufacturer:</b>	Maxim Chemical International Inc. 1607 Derwent Way, Delta, B.C. Canada V3M 6K8 (800) 663-9925
<b>Emergency Phone Number/ 24-Hour Number:</b>	Canada: Canutec 613-996-6666 U.S.A.: Chemtrec 800-424-9300

<b>SECTION 2 HAZARD IDENTIFICATION</b>
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**Physical Hazards:** None  
**Health Hazards:** SKIN CORROSION/IRRITATION - Category 1  
 EYE DAMAGE/IRRITATION - Category 1

**Label Elements:**



**Signal word:** Danger  
**Hazard Statement:** H314 Causes severe skin burns and eye damage.  
 H318 Causes serious eye damage.

**Precautionary Statements:**

**Prevention:** 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.

**Responses:** 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.

**Storage:** P405 Store locked up.  
**Disposal:** P501 Dispose of contents/ container to an approved waste disposal plant.

<b>SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS</b>
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Ingredient	Approx. Wt.%	CAS Number
Sodium Metasilicate	7-13	6834-92-0

<b>SECTION 4 FIRST-AID MEASURES</b>
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**Inhalation:** Immediately remove the affected victim to fresh air. If symptoms persist, obtain medical attention.

**Skin Contact:** Immediately flush exposed area with soap and water for at least 10 minutes. If irritation persists, or if contact has been prolonged, obtain medical attention. Remove contaminated clothing and launder before reuse.

**Eye Contact:** Immediately flush with warm running water for at least 15 minutes, holding eyelids open during flushing. Remove contact lenses, if present and easy to do. If irritation persists, repeat flushing and obtain medical attention immediately.

**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.

If irritation occurs or persists, get medical attention.

SECTION 5 FIRE-FIGHTING MEASURES
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<b>Extinguishing Media:</b>	Water fog, alcohol foam, or dry chemical.
<b>Flammability:</b>	Not flammable.
<b>Flash Point:</b>	Not flammable.
<b>Special Firefighting Procedures:</b>	Wear NIOSH/MSHA approved, self-contained breathing apparatus for firefighting situation. Use water spray to cool all nearby fire exposed surfaces.
<b>Unusual Fire / Explosion Hazards:</b>	Hydrogen gas may be produced on prolonged contact with metals such as aluminum, tin, lead and zinc.
<b>Hazardous Decomposition Products:</b>	Avoid prolonged contact with metals such as aluminum, brass, copper. Flammable hydrogen may be generated from prolonged contact with metals such as aluminum. Avoid contact with nitrites, strong acids, halogenated hydrocarbons.

SECTION 6 ACCIDENTAL RELEASE MEASURES
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**Environmental Protection Precautions:** Do not release to the environment or water source.  
**Steps To Be Taken In Case Material Is Released Or Spilled:** Wear protective equipment. Soak up spills with absorbents, then dispose of in an appropriate waste container. Keep material away from sewers. Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

SECTION 7 HANDLING AND STORAGE
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**Precautions To Be Taken In Handling And Storage:** 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. Do not store in aluminum, copper, copper alloys and galvanized containers.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION
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**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:** Non-permeable gloves (rubber, nitrile) recommended.  
**Masks/Goggles:** Use chemical goggles or safety glasses.  
**Respirator:** Good general ventilation or local exhaust ventilation for spraying and misting in confined areas.  
**Apron:** Rubber/PVC aprons when skin contact may occur.  
**Boots:** Rubber boots.  
**Other Protective Equipment:** Eye wash, safety shower and full protective clothing recommended in the immediate work area.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES
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<b>Appearance:</b>	Clear, colorless liquid.
<b>Odor:</b>	Mild odor. No added fragrance.
<b>Odor threshold:</b>	N/A
<b>pH:</b>	12.0 – 13.0
<b>Melting point/Freezing point:</b>	N/A
<b>Initial boiling point and boiling range:</b>	N/A
<b>Flash Point:</b>	>100 °C
<b>Evaporation Rate (Water=1):</b>	N/A
<b>Flammability:</b>	Not flammable
<b>Upper/Lower flammability or explosive limits:</b>	None.
<b>Vapor pressure:</b>	N/A
<b>Vapor density:</b>	N/A
<b>Relative density/Specific gravity (Water = 1):</b>	1.06 @ 20 °C

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

Chemical stability:	Stable under normal storage conditions.
Possibility of hazardous reactions:	Avoid contact with acid/oxidizers.
Conditions to avoid:	Temperatures above 30°C (86°F) and below 5°C (41°F). Avoid contact with reactive metals.
Incompatibility:	Incompatible with acid, metals and alloys, zinc, tin, aluminum, organic chemicals, nitrocarbons, halocarbons.
Hazardous Decomposition Products:	Oxides of metals and other unidentifiable organic compounds.

### SECTION 11 TOXICOLOGICAL INFORMATION

Likely routes of exposure:	Ingestion, skin and eye contact.
Symptoms:	Necrosis, tissue destruction, corrosion.
Acute Toxicity Estimates:	Oral >2000 mg/kg, dermal >2000 mg/kg
Carcinogenicity:	Not listed by NTP, IARC, OSHA, ACGIH.

### SECTION 12 ECOLOGICAL INFORMATION

Not Required.

### SECTION 13 DISPOSAL CONSIDERATIONS

**Recommended Waste Disposal Methods:** Reuse if possible. Otherwise dispose recovered material in accordance with all local, Provincial or Federal regulations.

### SECTION 14 TRANSPORT INFORMATION

Canadian TDG	
UN Number:	Not regulated.
UN Proper Shipping Name:	Not regulated.
Transport Hazard Class(es):	Not regulated.
Packing Group:	Not regulated.

### SECTION 15 REGULATORY INFORMATION

#### HAZARD RATING INFORMATION

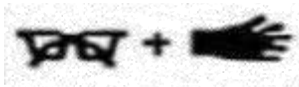
4=Extreme  
3=High  
2=Moderate  
1=Slight  
0=Insignificant

#### HMIS

3	Health
0	Flammability
0	Reactivity
B	Personal

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

HMIS Protection  
Group B



All pertinent hazard information has been provided in this SDS, per the requirements of the U.S. Federal Occupational Safety and Health Administration Standard (29 CFR 1910.1200), U.S. State equivalent Standards, and the Canadian Workplace Hazardous Materials Identification System Standards (CPR 4).

### 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

It is the responsibility of the user to provide a safe workplace, using the health and safety information contained herein as a guide. **Maxim Chemical International Inc.** will accept no liability for damages or loss incurred from the improper handling and use of this product.

The information provided in the Safety Data Sheet has been obtained from current sources and is believed to be reliable.

PREPARED BY: Technical Service/Regulatory Division

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