

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

Product Name: **Mar-Tek218**  
 Product Code: **MTO218**  
 Product Use: A safe and efficient high performance cleaner for both ferrous and non-ferrous alloys.  
 Manufacturer Address: **Mar-Tek Industries**  
 301 Industrial Drive, Forney Texas 75126  
 Phone: (214) 350-9401  
 Emergency Telephone No.: **ChemTel Inc. (800) 255-3924 and +1(813) 248-0585**

**SECTION 2: Hazards Identification**

GHS Classification of substance or mixture:

GHS Classification: Skin corrosion Category 1B  
 Specific target organ toxicity-single exposure Category 3

GHS Label elements, including hazards and precautionary statements:

Signal word: **DANGER**  
 Pictogram



Hazard statements:

H314 Causes severe skin burns and eye damage.  
 H335 May cause respiratory irritation; or  
 H336 May cause drowsiness or dizziness

Precautionary statements:

Prevention: P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P264 Wash hands thoroughly after handling.  
 P280 Wear protective gloves/protective clothing/eye protection/face protection.  
 P270 Use only outdoors or in well-ventilated area.  
 Response: P301++P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.  
 P303+361+353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.  
 P363 Wash contaminated clothing before reuse.  
 P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  
 P310 Immediately call as POISON CENTER or doctor/physician.  
 P321 See treatment (Refer section 4)  
 P305+351+338 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.  
P403+233 Store in a well-ventilated place. Place container tightly closed.

Disposal: P501 Dispose in accordance to local/regional/national/international regulation.

Supplemental hazard statements: None

### SECTION 3: Composition/Information on Ingredients

Chemical Name	Disodium trioxosilicate
Common Names	Sodium Metasilicate
CAS No.	6834-92-0
Content (w/w)	55-70%
Other non hazardous components	30-45 %

### SECTION 4: First aid measure

*Description of first aid measures*

**General Advise: Consult physician. Show this safety data sheet to the doctor in attendance.**

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult physician.

**In case of skin contact:** Take off contaminated clothing and shoes immediately. Wash it off with soap and plenty of water. Consult physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult physician.

**If swallowed:** DO NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult physician.

**Most important symptoms and effect, both acute and delayed:** Burning sensation, cough, wheezing, laryngitis, shortness of breath, spasm, inflammation and edema of the larynx, inflammation and edema of the bronchi, pneumonitis, pulmonary edema. This material is extremely destructive to tissue of the mucous membranes and upper respiratory tract eyes and skin.

### SECTION 5: Fire-fighting measures

**Suitable extinguishing media:** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Special protective measure:** Wear self-contained breathing apparatus for firefighting if necessary.

**Further information:** This product itself does not burn.

**Specific hazard arising from the chemical:** Sodium oxides, silicon oxide is expected to be the primary hazardous decomposition of this product.

### SECTION 6: Accidental release measures

**Personal precaution, protective equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapours, mist and gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**Environmental precautions:** Prevent spillage from entering drains. Any release to the environment may be subject to federal/national or local reporting requirements.

**Methods and materials for containment and cleaning up:** Sweep spilled substance into plastic containers; if appropriate, moisten first to prevent dusting. Cautiously neutralize remainder with dilute acid (preferably acetic acid). Then wash away with plenty of water.

### SECTION 7: Handling and storage

**Precaution for safe handling:** Avoid contact with skin and eyes. Keep containers closed when not in use. Store in a dry, cool and well-ventilated area. Containers may contain residue.

**Conditions for safe storage, including any incompatibilities:** All containers should be disposed of in an environmentally safe manner in accordance with all the government regulations. Keep this and all chemicals out of children.

SECTION 8: Exposure controls/personal protection

**Engineering controls:** General room or local exhaust ventilation is usually required to meet exposure limit (s).

**Occupational exposure controls:** *Contains no substances with occupational exposure limit values.*

**Personal protective equipment**

**Eye/face protection:** Safety glasses or approved equivalent as necessary to minimize eye contact.

**Skin:** Wear alkaline resistant gloves (natural latex).

**Inhalation:** Use a well-ventilated area. If mist is being generated and exceeds the TLV a respiratory protection program meeting OSHA 1910.134 requirements must be followed.

**General hygiene consideration:** Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands after handling this material before eating and smoking.

SECTION 9: Physical and chemical properties

Appearance

Physical state:	Granular Powder
Color:	White
Odor:	Not appreciable
Odor threshold:	Not available
pH:	12.3
Melting point/freezing point:	Not available
Initial boiling point/boiling range:	Not available
Flash point:	Not applicable
Evaporation rate:	Not available
Flammability (solid, gas)	No data available
Upper/Lower flammability or explosive limits	
Flammability limit-lower (%):	No data available
Flammability limit-upper (%):	No data available
Vapor pressure:	No data available
Vapor density:	No data available
Solubility (ies):	Moderate
Specific gravity:	Not applicable
Partition coefficient	
(n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available

SECTION 10: Stability and reactivity

**Chemical stability:** Stable under recommended storage conditions.

**Possibility of hazardous reactions:** Hydrogen

**Condition to avoid:** Avoid high temperature and incompatible material.

**Incompatible materials:** Avoid contact with aluminum, zinc, tin, copper and their alloys.

**Hazardous decomposition:** Sodium oxide fumes. Solutions of sodium metasilicate when heated or acidified are hydrolyzed to free sodium ions and silicic acid.

SECTION 11: Toxicological information

Information on likely route and sign and symptoms of exposure

Acute toxicity:	LD50 Oral-rat-600-1350mg/kg
Ingestion:	Harmful if swallowed.
Inhalation:	May be harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Causes respiratory tract irritation
Skin contact:	May be harmful if absorbed through skin. Causes skin burns.
Eye contact:	Cause eye burns
Chronic toxicity	Damage to organs: No data available
Teratogenicity	Not available
Mutagenicity	Not available
Embryotoxicity	Not available

Specific target organ toxicity: Single exposure; may cause respiratory irritation, dizziness or drowsiness.

Acute toxicity

Skin:	Corrosive –rabbit-severe irritation-24hrs
Eyes:	Not available
Respiratory:	Not available
Ingestion:	Not available

Potential health effect

Eyes	Causes eye burns.
Inhalation	May be harmful if inhaled. Material extremely destructive to the tissue of the mucous membranes and upper respiratory tract.
Skin	Harmful if absorbed through skin. Causes skin burns.
Ingestion	Harmful if swallowed.

Carcinogenicity:

IARC	Not classified as to its carcinogenicity to human.
ACGIH	No component of this product presents at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: Ecological information

Ecotoxicity data:

**Aquatic toxicity:** This material has exhibited moderate toxicity to aquatic organisms.

**Terrestrial:** This material has exhibited slight toxicity to terrestrial organisms.

**Persistence and biodegradability:** This material is inorganic and not subject to biodegradation. And it is believed to persist in the environment.

Bio-accumulative potential:	No data available
Mobility in soil:	No data available
PBT and vPVB Assessment:	No data available
Other adverse effect:	No data available

SECTION 13: Disposal consideration

**Waste disposal method:** Dispose of in accordance with federal, state and local authorities.

**Contaminated packaging:** Dispose of container and unused content in accordance with federal, state and local requirements.

SECTION 14: Transportation information

US Department Of Transportation

Shipping Name:	disodium trioxosilicate
Hazard Class:	8
UN Number:	UN3253
Packaging Group:	PGIII
Marine pollutant:	No

SECTION 15: Regulatory information

TSCA inventory status	All ingredients are listed on the TSCA inventory
DSCL (EEC)	All ingredients are listed on the DSCL inventory
CERCLA	Not listed
California proposition 65	Not listed
Massachusetts Right to Know Act	Not listed

New Jersey Right to Know Act	Not listed
Pennsylvania Right to Know Act	Not listed
Minnesota Right to Know Act	Not listed
Florida Right to Know Act	Not listed
SARA 302	Not listed
SARA 304	Not listed
SARA 311	Acute health hazard
SARA 312	Acute health hazard
SARA 313	Not listed
WHMIS Canada	Listed

SECTION 16: Other information
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Revision Date: 9/17/2014

Revision was made in sections: General revision

NFPA Ratings

Health	3
Flammability	0
Reactivity	0
Specific Hazard	N/A

HMIS Ratings

Health	3
Flammability	0
Reactivity	0
Personal	N/A

Abbreviation and acronyms

ACGIH	American Conference of Governmental Industrial Hygienists
CAS	Chemical Abstract Service
CEIL	Ceiling
DOT	Department of Transportation
GHS	Globally Harmonized System
HCS	Hazards Communication Standards
HMIS	Hazardous Materials Identification System
IDLH	Immediate Dangerous to Life or Health
NE	Not Established
NIOSH	National Institute of Occupational Safety and Health
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
SARA	Superfund amendments and Reauthorization Act
STEL	Short Term Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Material Information System
WEEL	Workplace Environmental Exposure Levels

Disclaimer: Mar-Tek industries provide the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This documentation is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

-----END OF SDS-----