



Safety Data Sheet
Revision Date: 10/10/2019

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

Product Name: Mar-Tek218
Product Code: MT218
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. 1-800-255-3924

SECTION 2: Hazards Identification

GHS Classification of substance or mixture:

MAR-TEK INDUSTRIES
GHS Classification: Skin corrosion/irritation Category 1, 1A, 1B, 1C
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: P260 Do not breathe dusts or mists.
P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P271 Use only outdoors or in well-ventilated area.

Response: P301+330+331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302+361+354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.

P363 Wash contaminated clothing before reuse.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P316 Get emergency medical help immediately.
P319 Get medical help if you feel unwell.
P321 See specific treatment (Refer SDS section 4)
P305+354+338 IF IN EYES: Immediately rinse 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%
Non-hazardous components	30-45 %

SECTION 4: First aid measure

Description of first aid measures

General Advice: 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 IO: 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 II: Toxicological information

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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: Not regulated

Hazard Class: Not regulated

UN Number: Not regulated

Packaging Group: Not regulated

Marine pollutant: Not regulated

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
WHMIS Canada

Not listed
Listed

SECTION 16: Other information

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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

MAR-TEK INDUSTRIES

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-----