



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

Product Name: Mar-Tek40B  
Product Code: MT40B  
Product Use: A safe and efficient high-performance non-ferrous alloys cleaner  
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:

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

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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 dust 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)	:	40-45%
Other non-hazardous components:	:	55-60 %

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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

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.

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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

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

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SECTION 16: Other information

Date: 10/10/19

NFPA Ratings

HMIS Ratings

Health 3

Flammability 0

Reactivity 0

Specific Hazard N/A

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.

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