



Safety Data Sheet
Revision Date: 10/24/2019

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

Product Name: Mar-Tek 276
Product Code: MTO276
Product Use: Spray machine heavy duty cleaner for ferrous metals.
Manufacturer: Mar-Tek Industries
Address: 301 Industrial Drive, Forney Texas 75126
Phone: (214) 350-9401
Emergency Telephone No.: ChemTel Inc. 1-800-255-3924

SECTION 2: Hazards Identification

Classification of the substance or mixture:

GHS Classification: Metal corrosion Category 1
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:

H290 May be corrosive to metal
H314 Causes severe skin burns and eye damage
H335 May cause respiratory irritation
H336 May cause drowsiness or dizziness

Precautionary statements:

Prevention:

P234 Keep in original container.
P260 Do not breathe dusts or mists.
P280 Wear protective gloves/protective clothing/ eye protection and face protection.
P271 Use only outdoors or in a well-ventilated area.

Response:

P390 Absorb spillage to prevent material damage.

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:

P406 Store in corrosive resistant container with resistant inner liner.

P405 Store locked up.

P403+233 Store in a well-ventilated place. Keep container tightly closed.

Disposal

P501 Dispose content/container in accordance to local, regional, national and international regulations.

SECTION 3: Composition/Information on Ingredients

Chemical Name	Common Names	CAS No.	Content (w/w)
Sodium Metasilicate	disodium trioxsilicate	6834-92-0	1-20%
Sodium hydroxide	Caustic Soda	1310-73-2	30-50%
Non-hazardous components			30%

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: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER, doctor/physician.

In case of skin contact: Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.

In case of eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

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: Not combustible, therefore define extinguishing measures according to neighboring conditions.

Special protective measure: Not applicable. Inorganic material. Not combustible.

Further information: This product itself does not burn.

Specific hazard arising from the chemical: Sodium oxides, silicon oxide.

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 up or vacuum up and place in appropriate closed container. Dike area to contain spill. Dilute spill with large amount of water and neutralize with dilute acid. Use a vacuum truck to pick up neutralized material for proper disposal. Flush area with water to remove trace residue. Dispose in accordance with appropriate law and regulation.

SECTION 7: Handling and storage

Precaution for safe handling: Avoid dust generation and provide for room ventilation during handling. Avoid breathing vapors, mist, fume or dust. Avoid contact with eyes, skin and clothing. Keep container closed when not in use.

Conditions for safe storage, including any incompatibilities: Store in a dry, well ventilated area, separate from acids, peroxides, metals, easily ignitable materials and other incompatibles. Do not store in aluminum container or use aluminum fittings or transfer lines, as flammable hydrogen can be generated.

SECTION 8: Exposure controls/personal protection

Engineering controls: Provide local exhaust to meet TLV requirements if making a solution or grinding up and mist or dust is generated. Ventilation facilities should be corrosion resistant. Localized ventilation should be used to control dust levels.

Occupational exposure controls:

Components	Exposure limits	Basis	Entity
Sodium metasilicate	Not established		
Sodium hydroxide	2mg/m ³	CEIL	ACGIH
	2mg/m ³	PEL	OSHA
	2mg/m ³	CEIL	NIOSH

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 Solid
Color:	Clear colorless liquid
Odor:	Slight characteristic
Odor threshold:	Not available
pH:	13.4
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):	Complete
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

Possibility of hazardous reactions: No data available

Condition to avoid: None known

Incompatible materials: Strong acids, strong oxidizers, aluminum, zinc and tin.

Hazardous decomposition: No hazardous decomposition products.

SECTION 11: Toxicological information

Information on likely route and sign and symptoms of exposure

Acute toxicity: LD₅₀ Oral-rat-1.153mg/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

Potential health effect
 Eyes: Causes eye irritation
 Inhalation: May be harmful if inhaled. Causes respiratory tract irritation
 Skin: Harmful if absorbed through skin. Causes skin irritation.
 Ingestion: May be harmful if swallowed.

Chronic toxicity: Damage to organs: Lungs, mucous membranes
 Teratogenicity: Not available
 Mutagenicity: Not available
 Embryotoxicity: Not available
 Specific target organ toxicity: No data available

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

Carcinogenicity: Not hazardous to OSHA criteria

SECTION 12: Ecological information

Ecotoxicity

Aquatic vertebrate	Not available
Aquatic invertebrate	Not available
Terrestrial	Not available
Persistence and degradability:	Not available
Bio-accumulative potential	Not available
Mobility in soil	Not available
PBT and vPVB Assessment	Not available
Other adverse effects	Slightly toxic to aquatic life

MARTEK INDUSTRIES

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:	Corrosive solid, basic, inorganic (sodium hydroxide)
Hazard Class:	8
UN Number:	UN1823
Packaging Group:	PGII
Label statement:	Corrosive
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
California proposition 65	Listed (Sodium Hydroxide)
New Jersey Right to Know Act	Listed (Sodium hydroxide)
Pennsylvania Right to Know Act	Listed (Sodium hydroxide)
SARA 302	Not listed
SARA 304	Not listed
SARA 311	Sodium hydroxide
SARA 312	Sodium hydroxide
SARA 313	Not listed
WHMIS Canada	Class E; corrosive solid

SECTION 16: Other information

Revision Date: 10/24/2019

NFPA Rating		HMIS	
Health	3	Health	3
Fire	1	Flammability	1
Reactivity	1	Physical hazards	1
		PPE	B

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-----