

Safety Data Sheet

Revision Date: 9/17/2014

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

Product Name: VMC Rust Remover
 Product Code: MTO101
 Product Use: Rust Remover
 Manufacturer: Address: Mar-Tek Industries
 14275 Midway Road, Suite 135
 Addison, Texas 75001 USA
 Phone: (469) 350-9401
 Emergency Contact Number
 Chem. Tel. No. (800) 255-3924 and +1(813) 248-0573

SECTION 2: Hazards Identification

Hazards Overview: Harmful if swallowed
 Self-heating may catch fire
 Contact with acids liberates toxic gas.
 Target organs: Respiratory system, eyes and skin
 Signal word: DANGER!
 Pictogram



GHS Classification:

Physical hazards	Self-heating substance and mixtures	Category 1
Health hazards	Acute toxicity (oral)	Category 4
	Acute toxicity (dermal)	Category 5
	Serious eye damage	Category 1

GHS Label elements, including precautionary statements:

Hazard statements

H251 Self-heating, may catch fire
 H302 Harmful if swallowed
 H313 May be harmful to skin
 H318 Causes serious eye damage
 H402 Harmful to aquatic life.

Precautionary statements

P235+P410 Keep cool, protect from sunlight.
 P264 Wash skin thoroughly after handling.
 P270 Do not eat, drink or smoke when using this product.
 P273 Avoid release to the environment.
 P280 Wear protective gloves/protective clothing/eye protection and face protection.
 P281 Wear protective equipment for hands, eyes, face, and respiratory system
 P301+P330 If swallowed rinse mouth.
 P305, P351, P338 IF IN EYES, rinse with water for several minutes. Remove contact eye lenses if present and continue rinsing.
 P501 Dispose of contents/container to hazardous or special waste collection point.

Other Hazards: Contact with acids or water liberates toxic sulfur dioxide gas.

Potential health effect

Eyes May causes eye irritation
 Inhalation May causes respiratory tract irritation
 Skin May causes skin irritation
 Ingestion Harmful if swallowed

SECTION 3: Composition/Information on Ingredients

Chemical Name	Common Names	CAS. No.	Concentration
Sodium hydrosulfite	Sodium Dithionite	7681-57-4	35-55%
Sodium Metabisulfite	Sodium Pyrosulfite	7775-14-6	30-45%

SECTION 4: First aid measure

General Advice: Remove contaminated clothing.

If inhaled: Move person into fresh air. If not breathing, give artificial respiration. And seek medical attention.

In case of skin contact: Wash thoroughly with soap and water.

In case of eye contact: Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical attention.

If swallowed: Never give anything by mouth to an unconscious person. Rinse mouth with plenty of water. Seek medical help.

Symptoms and effect both acute and delayed: Vomiting, abdominal cramps, shortness of breath, nausea, diarrhea, coughing and asthmatic complaints.

SECTION 5: Fire-fighting measures

Suitable and unsuitable extinguishing media: Carbon dioxide or dry powder and dry sand
Specific hazards arising from the chemical: Releases toxic and irritating sulfur dioxide at fire temperature. Self-heating; may catch fire. Contact with combustible material may cause fire.

Special protective equipment and precautions for fire fighters

Special fire fighter procedures: Move containers from fire area if you can do without risk.

Special protective equipment for fire fighters: Wear NIOSH approved self-contained breathing apparatus.

Further information: Addition of small amount of water may cause self-ignition.

SECTION 6: Accidental release measures

Personal precaution, protective equipment and emergency procedures: Do not touch any damaged containers or spilled material unless wearing appropriate protective clothing. Provide ventilation to clear sulfur dioxide fumes which may be generated by contact with water.

Environmental precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so do.

Methods and materials for containment and cleaning up: Clean surface thoroughly to remove residual contamination by sweeping up material with minimum dusting and shovel into an empty container with cover. Rinse spills area with plenty of water.

SECTION 7: Handling and storage

Precaution for safe handling: Do not taste or swallow. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. When using do not eat, drink or smoke. Wash hands thoroughly after handling the product. Wash contaminated clothing before reuse.

Conditions for safe storage, including any incompatibilities: Store in original tightly closed container. Store in areas away from heat and moisture and protect from physical damage. Segregate from acids and oxidizers.

SECTION 8: Exposure controls/ personal protection

Engineering controls: Use local exhaust if there is a release of sulfur dioxide gas. Do not use unventilated spaces, e.g., walk-in coolers or confined spaces.

Component	Exposure Limit	Basis	Entity
Sodium Metabisulfite	5 mg/m ³	TWA	ACGIH
Sodium Hydrosulfite	Contain no substance with occupational exposure limit		

Personal protective equipment

Eyes: Wear chemical or safety glasses or goggles.

Inhalation: Where required, wear NIOSH-approved respirator for dust, mist and/ or sulfur dioxide gas, as conditions indicate. Some exposure may require a NIOSH-approved self-contained breathing apparatus or supplied air respirator.

Skin: Wear protective gloves, boots and clothing when necessary to prevent excessive skin contact.

Other recommendation: Make emergency eyewash stations, showers, and washing facilities available in work area.

SECTION 9: Physical and chemical properties

Appearance

- Physical state: Powder
- Color: White to slightly yellow
- Odor: Pungent SO₂ odor
- Odor threshold: Not available
- pH: Not available
- Melting point/freezing point: Not available
- Initial boiling point/boiling range: Not available
- Flash point: Not available
- Evaporation rate: Not available
- Flammability (solid, gas) Not flammable
- Upper/Lower flammability or explosive limits
 - Flammability limit-lower (%): Not available
 - Flammability limit-upper (%): Not available
- Vapor pressure: Not available
- Vapor density: Not available
- Density: Not available
- Solubility (ies): Complete
- Specific gravity: Not available
- Partition coefficient (n-octanol/water): Not available
- Auto-ignition temperature: Not available
- Decomposition temperature: Not available

SECTION 10: Stability and reactivity

Chemical stability: Unstable above ambient temperature. Keep dry.

Possibility of hazardous reactions: Will not occur.

Condition to avoid: Avoid moisture and heat.

Incompatible materials: Strong oxidizing agents, acids and contact with moisture.

Hazardous decomposition: Sulfur dioxide

SECTION 11: Toxicological information**Information on likely route and sign and symptoms of exposure**

Ingestion: Swallowing can result in nausea, vomiting, diarrhea and abdominal pain. May also cause allergic reactions in sulfite sensitive individual.

Inhalation: Inhalation of dust may result in respiratory tract irritation. May cause asthma-like symptoms in sensitive individuals.

Skin contact: Contact with skin may result in irritation. Sulfite sensitive individuals may show signs of allergic contact dermatitis from repeated prolonged skin exposure.

Eye contact: Exposure to dust may cause severe eye irritation with possible permanent damage.

Chronic toxicity: Not available

Teratogenicity Not available

Mutagenicity Not available

Embryotoxicity Not available

Specific target organ toxicity: Not available

Reproductive Toxicity: Not available

Respiratory/Skin sensitization: Not available

Acute toxicity

Skin: LD50: >500mg/kg (Rat) (Sodium hydrosulfite)

LD50: >2,000mg/kg (Rat)(Sodium metabisulfite)

Eyes: Risk of serious damage to eyes (Rabbit) (Sodium metabisulfite) Not available

Respiratory: Not available

Ingestion: LD50: >10,000mg/kg (Rabbit) (Sodium hydrosulfite)

Carcinogenicity

IARC Not classified as to its carcinogenicity to humans.

ACGIH No component of this product present 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

Aquatic vertebrate LC50-Lepomis macrochirus (Bluegill)-450-1000mg/l-96h

Aquatic invertebrate EC50-Daphnia-609.98 mg/l-48 h

Terrestrial Not available

Persistence and degradability Not available

Bio-accumulative potential Not available

Mobility in soil Not available

PBT and vPVB Assessment Not available

SECTION 13: Disposal consideration

Waste disposal method: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with government regulations. If these are not available consign the recovered materials to a licensed hazardous waste contractor.

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 dangerous goods
UN Number:	Not dangerous goods
Packaging Group:	None
Label statement:	None
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	Not listed
Massachusetts Right to Know Act	listed
New Jersey Right to Know Act	Listed
Pennsylvania Right to Know Act	Listed
SARA 302	Not listed
SARA 311	Not listed
SARA 312	Not listed
SARA 313	Not listed
WHIMIS Canada	Not listed

SECTION 16: Other information

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NFPA Ratings		HMIS Ratings	
Health	2	Health	2
Flammability	0	Flammability	0
Reactivity	0	Reactivity	0
Specific Hazard	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
NA	Not Applicable
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.