



SAFETY DATA SHEET
Revision Date: March 3, 2015

TECHNICAL ASSISTANCE CORPORATION

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

Product Name:	Oxalic Acid
Product Code:	VMCOA
Product Use:	Metal cleaning, rust removal and textile cleaning
Manufacturer:	Mar-Tek Industries
Address:	301 Industrial Drive, Forney Texas 75126
Phone:	(214) 350-9401
Emergency Telephone No.:	
ChemTel Inc.	(800) 255-3924 and +I(813) 248-0585

SECTION 2: Hazards Identification

Classification of the substance or mixture:

GHS Classifications:	Acute toxicity	Oral	Category 4
	Acute toxicity	Dermal	Category 4
	Eye damage /irritation		Category 1B
Signal word:	DANGER!		
Pictogram			

GHS Label elements, including hazards and precautionary statements:

Hazard statements:	H302	Harmful if swallowed
	H312	Harmful in contact with skin
	H318	Causes serious eye damage.

Precautionary statements

Prevention:	P264	Wash hands thoroughly after handling.
	P270	Do not eat, drink and smoke when using this product.
	P280	Wear protective clothing/eye protection
Response:	P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
	P330	Rinse mouth
	P302+352	IF ON SKIN: Wash with plenty of soap and water.
	P312	Call POISON CENTER or doctor/physician if you feel unwell.
	P32	Specific measures (refer section 4)
	P363	Wash contaminated clothing before reuse.
	P305+351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician

Disposal: P310 Call POISON CENTER or doctor/physician.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 3: Composition/Information on Ingredients

Description: Mixture of the substances listed below with non-hazardous additions.

Chemical Name	Common Names	CAS No.	Content
Oxalic Acid	Dicarboxylic	144-62-7	100%

SECTION 4: First aid measure

Description of first aid measures

General information: Present this SDS to the doctor in attendance.

If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

In case contact on skin (or hair): Remove/rake off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

In case contact in eye: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

If swallowed: DO NOT induce vomiting. Rinse mouth with water. Call POISON CENTER or doctor/physician.

Most important symptoms and effect, both acute and delayed: None expected under normal use condition.

Indication of any immediate medical attention and special treatment needed: Seek medical attention if you feel unwell.

SECTION 5: Fire-fighting measures

Extinguishing media

Suitable extinguishing media: Use water spray, sand, alcohol resistant foam, dry powder or carbon dioxide.

Unsuitable extinguishing media: Don't use heavy water stream.

Special hazard arising from the substance or mixtures: Toxic fumes may be present under fire condition.

Advice for firefighters: Wear self-contained breathing apparatus and suitable protective clothing.

Additional information: Keep receptacles cool with water spray.

Further information: No further relevant information available.

SECTION 6: Accidental release measures

General information: Use proper personal protective equipment as indicated in Section 8.

Personal precaution, protective equipment and emergency procedures:

Use respiratory protective device against the effects of fumes/dust/aerosol.

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation.

Avoid formation of dust.

Environmental precautions: Prevent spillage from entering drains, sewers, surface or ground water. Any release to the environment may be subject to federal/national or local reporting requirements. Inform authority in case of seepage into watercourse or sewage system.

Methods and materials for containment and cleaning up: Avoid generating dust. Avoid skin and eye contact by wearing suitable protective equipment. Keep in close containers for disposal.

SECTION 7: Handling and storage

Precaution for safe handling: Prevent formation of dust. Any deposit of dust, which cannot be avoided, must be regularly removed. Ensure good ventilation/ exhaust at the workplace.

Information about protection against explosions and fires: Dust can combine with air to form an explosive mixture.

Conditions for safe storage, including any incompatibilities: Keep in tightly closed dry and well-ventilated place. Moisture sensitive.

Further information about storage condition: Store in cool, dry condition in well-sealed receptacles.

Engineering controls: Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Control parameters

Component	Exposure Limit	Basis	Entity
Aluminum Oxide	1mg/m3 TWA	PEL	OSHA
	1mg/m3 TWA 2mg/m3 STEL	TLV	ACGIH

Personal protective equipment

- Eyes/face: Wear chemical safety goggles or glasses.
- Skin: Wear gloves. Check the gloves before using. Use proper technique in removing the gloves to avoid contamination or contacting the skin. Dispose gloves in proper disposal. Hand hands after handling this product.
- Respiratory: Use approved mask.
- Others: None

General hygiene consideration: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands and contaminated skin before and after breaks. Avoid contact with eyes and skin. Do not inhale dust/smoke and mist.

Other recommendation: Provide eyewash or washing facilities near the area of use or handling.

SECTION 9: Physical and chemical properties

- Appearance: Physical state: Granules or crystals
Color: White to clear
- Odor: Odorless
- Odor threshold: Not determined
- pH value: 1 at 126.1 g/l at 25°C (77°F)
- Change of condition: Melting point/freezing point: 104-106°C (219-223°F)
Initial boiling point/boiling range: Undetermined
- Flash point: Not applicable
- Flammability (solid, gas) Product is not flammable
- Upper/Lower flammability or explosive limits: Flammability limit-lower (%): No data available
Flammability limit-upper (%): No data available
- Ignition temperature: Decomposition temperature: Not determined
- Self-igniting: Not determined
- Danger of explosion: Product does not present an explosion hazard.
- Evaporation rate: Not determined
- Decomposition temperature: Not determined
- Vapor pressure: Not applicable
- Vapor density: Soluble in cold water, diethyl ether. Soluble in alcohol, glycerol. Insoluble in benzene, petroleum ether.
- Solubility (ies): Partly soluble in water
- Specific gravity: No data available
- Partition coefficient (n-octanol/water): Not available
- Viscosity: Dynamic: Not applicable
Kinetic: Not applicable

SECTION 10: Stability and reactivity

- Chemical stability: Stable
- Possibility of hazardous reactions: Will not occur
- Condition to avoid: Avoid moisture
- Incompatible materials: Bases, metals, acid chlorides, alkali metals.
- Hazardous decomposition: Carbon oxide

VMC Technical Assistance Corp.**SECTION II: Toxicological information**

Information on likely route and sign and symptoms of exposure

Acute toxicity: LD/LC50 375mg/kg (rat-female)
 Skin corrosion/irritation: Skin-rabbit-no skin irritation- OECD test guidelines 404
 Serious eye damage/
 eye irritation: Eye-rabbit- risk of serious damage to eyes-24 h- OECD test guidelines 405
 Respiratory or skin sensitization: mouse –does not cause skin sensitization.
 Chronic toxicity Damage to organs: No data available
 Teratogenicity Not available
 Mutagenicity Not available
 Embryotoxicity Not available
 Specific target organ toxicity: No data available
 Potential health effect
 Eyes: Causes eye burns.
 Inhalation: May be harmful if inhaled. May cause respiratory tract irritation.
 Skin: Harmful if absorbed through skin. May cause skin irritation.
 Ingestion: Harmful if swallowed.

Sign and symptoms of exposure: Burning sensation, Cough, wheezing, laryngitis, Shortness of breath, spasm, and inflammation and edema of the larynx, spasm, and inflammation and edema of the bronchi, pneumonitis, pulmonary edema, Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.

Carcinogenic categories:

NTP (National Toxicology Program): None of the ingredient is listed.

OSHA-Ca. (Occupational Safety and Health Administration) None of the ingredients is listed.

SECTION 12: Ecological information

Toxicity : Toxicity to fish LC50 - Leuciscus idus (Golden orfe) - 160 mg/l - 48 h
 Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 137 mg/l - 48 h other aquatic invertebrates
 Persistence and degradability : Biodegradability
 Bioaccumulative potential: No data available
 Mobility in soil: No data available
 Results of PBT and vPvB assessment: No data available
 Other adverse effects: No data available

SECTION 13: Disposal consideration

Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transportation information**US Department Of Transportation**

Shipping Name: Corrosive solid, acidic, organic, n.o.s (Oxalic Acid)
 Hazard Class: 8
 UN Number: UN 3261
 Packaging Group: III
 Marine pollutant: NO

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA:

Section 311/312 (Extremely hazardous substances): Acute health hazard, chronic health hazard

DSCL Inventory: All ingredients are Listed

TSCA (Toxic Substances Control Act): All of the ingredients are listed.

State regulations: California New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts (Listed)

SECTION 16: Other information

Revision Date: March 3, 2015

General Revision

NFPA Ratings (Scales 0-4)		HMIS-Ratings (Scale 0-4)	
Health	2	Health	2
Flammability	1	Flammability	1
Reactivity	0	Reactivity	1
		Physical hazard	E

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.

-----END OF SAFETY DATA SHEET-----