



Safety Data Sheet
Revision Date: 9/7/2019

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

Product Name: Mar-Tek 70
Product Code: MT070
Product Use: Rust corrosion and mineral scale remover
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 substance or mixtures:

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GHS classification	
Corrosive to metal	Category 1
Skin corrosion/irritation	Category 1, 1A, 1B, 1C
Eye damage/irritation	Category 1
Hazardous to the aquatic environment- Short term (acute)	Category 2

GHS Label elements, including hazards and precautionary statements:

Signal word: DANGER!

Pictogram



Hazard statements:

- H290 May be corrosive to metals.
- H314 Causes severe skin burns and eye damage
- H318 Causes serious eye damage
- H401 Toxic to aquatic life

Precautionary statements:

Prevention:

- P234 Keep only in original packaging.
- P260 Do not breathe dusts or mists
- P264 Wash hands thoroughly after handling.
- P280 Wear protective gloves/protective clothing/eye protection/face

protection.
P273 Avoid release to the environment.

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 skin with water for several minutes.
P363 Wash contaminated clothing before reuse.
P304+340 IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P316 Get emergency medical help immediately.
P321 Specific treatment (Refer SDS section 4)
P305+P351+P338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P317 Get medical help.
Storage:
P406 Store in a corrosion resistant container with a resistant inner lining.
P405 Store locked up.
Disposal
P501 Dispose in accordance to local/regional/ national/international regulations.

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SECTION 3: Composition/Information on Ingredients

Chemical Name:	Phosphoric Acid
Common Names:	orthophosphoric acid
CAS No.:	7664-38-2
Content (w/w):	30 - <60%
Non-hazardous component	40%

SECTION 4: First aid measure

If in doubt, seek medical advice.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Get medical help.

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

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

If ingested: Rinse mouth. Do NOT induce vomiting.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Not combustible, however if material involved in a fire use: Water spray, normal foam, dry agent (carbon dioxide, dry chemical powder)

Special protective equipment and precautions for fire fighters: Decomposes on heating emitting toxic fumes, including those of oxides of phosphorus. Fire fighters should wear self-

contained breathing apparatus and suitable protective clothing if risk of exposure to product decomposition. Keep containers cool with water spray.

Specific hazards arising from the chemical: None combustible material.

SECTION 6: Accidental release measures

Personal precaution, protective equipment and emergency procedures: See section 8 for recommendation on the use of personal protective equipment.

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: Neutralize spill with sodium bicarbonate or lime. Absorb spill with noncombustible absorbent material, then place in a suitable container for disposal. Clean surfaces thoroughly with water to remove residual contamination. Dispose of all waste and clean up material in accordance with regulation.

SECTION 7: Handling and storage

Precaution for safe handling: Refer section 8 for recommendations on the use of personal protective equipment. Use with adequate ventilation. Wash hands/skin thoroughly after using. Keep container closed when not in use. Avoid formation of aerosols.

Conditions for safe storage, including any incompatibilities: Store in cool, dry well-ventilated area. Keep away from incompatible materials. (Refer section 10 for incompatibilities).

SECTION 8: Exposure controls/personal protection

Engineering controls: Provide local exhaust or general dilution ventilation to keep airborne levels below the permissible exposure limit.

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limit	Basis	Entity
Phosphoric Acid	1 mg/m ³	TLV	ACGIH
	3 mg/m ³	STEL	ACGIH
	1 mg/m ³	PEL	OSHA
	1 mg/m ³	REL	NIOSH
	3 mg/m ³	STEL	NIOSH
	1000 mg/m ³	IDLH	OSHA

Personal protective equipment

Eyes: Wear appropriate safety glasses or goggles as described by OSHA's eye and face protection regulation in 29 CFR 1910.133. Do not wear contact lenses when working with chemicals.

Inhalation: Provide local exhaust, preferably mechanical. If exposure levels excessive, use an approved respirator.

Skin: Wear nitrile gloves and complete body suit.

Other protective clothing or equipment: Neoprene aprons, overshoes, over-sleeves or other impervious clothing as necessary to minimize exposure.

Work hygienic practices: Use proper industrial hygiene practices to minimize hazardous exposure. Wash hands/skin after handling this material before eating or smoking.

Other recommendations: Provide eye wash stations, quick drench showers and washing facilities accessible to areas of use and handling.

SECTION 9: Physical and chemical properties

Appearance

Physical state:	Clear liquid
Color:	Colorless
Odor:	Odorless
Odor threshold:	Not available
pH:	Acidic
Melting point/freezing point:	No data available
Initial boiling point/boiling range:	No data available
Flash point:	Not flammable
Evaporation rate:	Not available
Flammability (solid, gas)	Not flammable
Upper/Lower flammability or explosive limits	
Flammability limit-lower (%):	Not explosive
Flammability limit-upper (%):	Not explosive
Vapor pressure:	No data available
Vapor density:	No data available
Solubility (ies):	Complete
Partition coefficient (n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available
VOC content:	Not applicable
Other properties:	Substance has acid reaction

SECTION 10: Stability and reactivity

Chemical stability:	Stable
Possibility of hazardous reactions:	Will not occur.
Condition to avoid:	Strong oxidizer Strong reducers Strong bases Fluorine, and Metals.
Hazardous decomposition:	Phosphorus oxide

SECTION 11: Toxicological information

Information on likely route and sign and symptoms of exposure

Ingestion: Swallowing can result in nausea, vomiting, abdominal pain and chemical burns to the gastrointestinal tract.

Inhalation: Breathing mist

Skin contact: Contact with skin result severe irritation. Corrosive to skin- may cause skin burns.

Eye contact: Severe irritant. Corrosive to eye; contact can cause corneal burns.

Chronic toxicity Damage to organs

Teratogenicity Not available

Mutagenicity Not available

Embryotoxicity Not available

Serious corrosion/irritation: Severe irritant (Rabbit)

Serious eye damage/irritation: Severe irritant (Rabbit)

Acute toxicity

 Skin: LD50-Rabbit-2,740mg/kg

 Eyes: Not available

 Respiratory: Not available

 Ingestion: LD50-Rat-1,530 mg/kg

Potential health effect

 Eyes Causes eye irritation

 Inhalation May be harmful if inhaled. Causes respiratory tract irritation

 Skin May be harmful if absorbed through skin. Causes skin irritation

 Ingestion May be harmful if swallowed

Carcinogenicity

 IARC No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARCH.

 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: Avoid contaminating waterways.

 Aquatic vertebrate No data available

 Aquatic invertebrate No data available

 Terrestrial No data available

 Persistence and degradability No data available

 Bio-accumulative potential No data available

 Mobility in soil No data available

 PBT and vPVB Assessment No data available

 Other adverse effects No data available

SECTION 13: Disposal consideration

Waste disposal method: Dispose of in accordance with federal, state, and local regulations.

Contaminated packaging: Empty containers should be recycled or disposed of through and approved waste management facility.

SECTION 14: Transportation information

US Department of Transportation

Shipping Name: Phosphoric acid, Solution
Hazard Class: 8
UN Number: UN1805
Packaging Group: PGIII
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 Not listed
Massachusetts Right to Know Act Not listed
New Jersey Right to Know Act Listed
Pennsylvania Right to Know Act Listed
SARA 302 Not listed
SARA 304 Not listed
SARA 311 Phosphoric acid
SARA 312 Phosphoric Acid
SARA 313 Not listed
WHMIS Class E, corrosive liquid.

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SECTION 16: Other information

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NFPA Ratings

HMIS rating

Health	3	Health	3
Flammability	0	Flammability	0
Reactivity	0	Reactivity	0
		Personal	H

Abbreviation and acronyms

ACGIH American Conference of Governmental Industrial Hygienists
CAS Chemical Abstract Service
CEIL Ceiling
DOT Department of Transportation
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 SDS-----

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