

SAFETY DATA SHEET

Revision Date: 9/2/2014

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

Product Name:	VMC AW70
Product Code:	MT070
Product Use:	Acid Based Cleaner
Manufacturer	Address: Mar-Tek Industries 14275 Midway Road, Suite 135 Addison, Texas 75001 USA
Phone:	(469) 350-9401
Emergency Telephone No. :	Chem Tel Inc. (800) 255-3924 +1(813) 248-0585

**SECTION 2: Hazards Identification**

OSHA Hazards:	Target organ effect Highly toxic by inhalation Harmful by ingestion Corrosive
Target organs:	Liver, blood and bone marrow
Signal word:	DANGER
Pictogram	



GHS Classification:	
Acute toxicity, oral	Category 4
Acute toxicity, inhalation	Category 2
Acute toxicity, dermal	Category 5
Skin corrosion	Category 1B
Serious eye damage	Category 1

GHS Label elements, including precautionary statements:

Hazard statements

- H302 Harmful if swallowed
- H313 May be harmful in contact with skin
- H314 Causes skin burns and eye damage
- H330 Fatal if inhaled

Precautionary statements:

- P260 Do not breathe/dust/fume/gas/mist/vapor/spray
- P280 Wear protective gloves/protective clothing/eye protection/face protection
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
- P310 Immediately call a Poison Center or doctor/physician.

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

NFPA Ratings

Health 2 Flammability 0 Reactivity 0 Specific Hazard N/A

HMIS Ratings

Health 3 Flammability 0 Reactivity 0 Personal H

**SECTION 3: Composition/Information on Ingredients**

Chemical Name	Common Names	CAS No.	Content (w/w)
Phosphoric Acid	orthophosphoric acid	7664-38-2	30-60

**SECTION 4: First aid measure**

**Eyes:** In case of eye contact, rinse with plenty of water, seek medical attention immediately.

**Inhalation:** Evacuate to safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

**Skin:** Remove contaminated clothing. Wash affected area with soap and water. If irritation persists seek medical attention. Decontaminate clothing and shoes before reuse. Discard contaminated leather articles.

**Ingestion:** DO NOT induce vomiting. Do not anything by mouth to an unconscious person. If conscious, wash out mouth with water. Get medical attention immediately.

#### **SECTION 5: Fire-fighting measures**

**Suitable extinguishing media:** Product not flammable. Use appropriate media for adjacent fire. Cool containers with water.

**Special protective measure:** Wear self contained, approved breathing apparatus and full protective clothing, including eye protection and boots.

**Specific hazards arising from the chemical:** Emit toxic fumes (phosphorus oxide) under fire conditions. (See also Stability and Reactivity section).

#### **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 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/m3	TLV	ACGIH
	3 mg/m3	STEL	ACGIH
	1 mg/m3	PEL	OSHA
	1 mg/m3	REL	NIOSH
	3 mg/m3	STEL	NIOSH
	1000 mg/m3	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 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.

<b>SECTION 9: Physical and chemical properties</b>
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Appearance

- Physical state: Clear liquid
- Color: Colorless
- Odor: Odorless
- Odor threshold: Not available
- pH: Acidic
- Melting point/freezing point: 21°C (70°F)
- Initial boiling point/boiling range: 158 °C (316 °F)
- 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:	0.3 kPa at 20°C
Vapor density:	3.4 (air=1)
Solubility (ies):	Soluble in water
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:** Will not occur.

**Condition to avoid:** Strong oxidizer, strong reducers, strong bases, fluorine, metals.

**Hazardous decomposition:** Phosphorus oxide

#### SECTION 11: Toxicological information

##### Information on likely route and signs and symptoms of exposure

Ingestion:	Corrosive! Burning, choking, nausea, vomiting and severe pain.
Inhalation:	Burning, choking, coughing, wheezing, laryngitis, shortness of breathe, headache or nausea.
Skin contact:	Burning, itching, redness, inflammation, swelling of exposed tissue.
Eye contact:	Eye burns and watering eyes.
Chronic toxicity	Damage to organs
Teratogenicity	Not available
Mutagenicity	Not available
Embryo toxicity	Not available
Specific target organ toxicity	Blood, liver, skin, eyes, bone marrow.
Acute toxicity	
Skin:	LD50-Rabbit-2,740mg/kg
Eyes:	Not available
Respiratory:	Not available
Ingestion:	LD50-Rat-1,530 mg/kg
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

**SECTION 12: Ecological information**

Eco toxicity	
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	Not 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, liquid

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
Minnesota Right to Know Act	Listed
Florida 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
WHIMIS Canada	Class E, corrosive liquid.

#### **SECTION 16: Other information**

Revision Date: 9/02/2014

Revision was made in sections: General revision

#### **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.