
Section 1 – CHEMICAL PRODUCT AND COMPANY INFORMATION

Formulator's Name:
Mar Vista Resources
745 North Ave
Corcoran, Ca 93212

EMERGENCY TELEPHONE NO.:
DAYS: (559) 992-4535
24 Hour Emergency HAZMAT Response: (800) 424-9300
EPA National Response Center: (800) 424-9300

TRADE NAME AND SYNONYMS: 75-85% Phosphoric Acid

CHEMICAL NAME AND SYNONYMS: Inorganic acid (Phosphoric acid CAS# 7664-38-2)

Section 2 - -COMPOSITION/INFORMATION ON INGREDIENTS

N-P-K (NITROGEN-PHOSPHORUS-POTASSIUM) LIQUID FERTILIZERS

Typical Composition: 0% - Total Nitrogen as N
54% - 61% Total Phosphorus as P2O5
0% - Total Potassium
46% - 39% Water, inert ingredients/trace impurities

Phosphoric acid (CAS# 7664-38-2)	Weight % 75-85	TLV 1mg/ m3 3 mg/m3 STEL	PEL 1 mg/m3
Inert Ingredients	25-15		

Section 3 - HAZARD IDENTIFICATION

This liquid fertilizer is an inorganic acid phosphoric acid. This material is an acid and very corrosive.

Most likely route of entry is dermal. Wear proper personal protection (PPE) see section 8.

Skin Contact: May produce mild to severe irritations. Prolonged contact may result in chemical burns.
Skin Absorption: May produce mild to severe irritations. Prolonged contact may result in chemical burns.
Eye contact: Will produce severe irritation. Prolonged contact may result in burn to eye causing permanent damage.
Ingestion: Ingestion may result in irritation and burning of mucous membranes and/or gastrointestinal tract.
Inhalation: Inhalation of acid mist may produce mild to severe irritation of respiratory tract.

Section 4 – FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES: Call a physician immediately in all cases of suspected poisoning. The medical emergency telephone number is 800-228-5635 ext. 136

Ingestion: Dilute with 2-3 glasses of water. If swallowed, immediate medical attention is required.

Inhalation: Remove to fresh air. If not breathing give artificial respiration if properly trained. Seek medical attention immediately.

Skin: Remove contaminated clothing and rinse with clear water for 15 minutes. If irritation persists seek medical attention.

Eyes: Flush with running water for at least 15 minutes until irritation subsides, seek medical attention immediately.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Preexisting respiratory and skin conditions may be aggravated by exposure to product.

POTENTIAL CARCINOGEN STATUS (Source of Information - Registry of Toxic Effects of Chemical Substances): None listed

Section 5 – FIRE FIGHTING MEASURES

FLASH POINT (Specify Method - °C): Not Flammable

FLAMMABLE LIMITS (PERCENT BY VOLUME): None established

FIRE EXTINGUISHING MEDIA: Determined by surrounding fire. Not considered combustible. Adding water to this acid can cause the liquid to heat up and splash on the responder. The responder needs to wear self-contained breathing apparatus and cull protective chemical suit.

Section 6 – ACCIDENTAL RELEASE MEASURES

STEPS TAKEN IN THE CASE OF A SPILL OR RELEASE: Wear PPE see section 8 for PPE. Small spills can be safely neutralized with lime stone or soda ash. Sweep up the absorbed material and place in drum for field application or for disposal. Then rinse area with water and absorb with absorbent material. For larger spills, contain the area with diking to avoid contamination of water ways or rivers. Then begin process of neutralization using lime stone or soda ash

Check with local, state and federal authorities for disposal.

Section 7 – HANDLING AND STORAGE

Precautions to be taken in handling: When loading or unloading this product from a vehicle, always open top valves to allow for adequate amount of time to mitigate possible exposure to vapors within the vessel such as possible chlorine gas. Next wear PPE see section 8 for PPE. Avoid storage and/or transfer in tanks, lines and other equipment constructed of materials not specifically designed and approved for phosphoric acid service. Have adequate first aid water at the location of loading and unloading (shower and eye wash station). Avoid freezing weather below 1°F. Work in well ventilated area.

Section 8 – EXPOSURE CONTROL/PERSONAL PROTECTION

Ventilation Protection: Work in a well-ventilated area.

Respiratory Protection: Wear approved respirators for protection against acid mists and vapors. Always wear when loading or unloading containers or tanks. One may want to wear supplied air full-face respirator when unloading cargo tanker or rail car.

Eye Protection: Tight sealing splash proof goggles and full face shield. Unloading cargo tank or railcar; wear full-face air supplied face respirator.

Protective Clothing: Rubber clothing, chemical gloves, chemical hat or hood and footwear specifically designed for inorganic acids.

Other Protection: Eyewash and safety shower in work area.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

Specific Gravity: Varies by %

Boiling Point: Varies by %

Salt out Temperature: Varies by %

Solubility-Water: Appreciable

Bulk density: Varies by %

pH: < 1.0

Color/Odor: Water Clear to Green viscous liquid. Odorless when cold, pungent when hot.

Solubility with water: Water added to acid creates heat, always add acid to water. Acid and water very soluble.

Section 10 – STABILITY AND REACTIVITY

STABILITY: Stable

CONDITIONS TO AVOID: Avoid contact with bases or metals other than stainless steel. Avoid adding water to acid and excessive heat.

INCOMPATIBILITY (Avoid contact with): Strong oxidizing agents, strong bases and water will produce hydrogen gas.

HAZARDOUS DECOMPOSITION PRODUCTS: High heat can produce hydrogen gas and/or phosphorus oxides.

HAZARDOUS POLYMERIZATION: Will not occur

Section 11 – TOXICOLOGY INFORMATION

Acute Oral LD50 (rat)= 1530 mg/kg

Acute dermal LD50 (rabbit)= 2470 mg/kg

Acute Inhalation LC50 (rat)= 100mg/cm

Although low toxicity to aquatic life, avoid contamination of waterways. Aquatic toxicity rating 100-1000 ppm

Section 12 – ECOLOGICAL INFORMATION

MATERIAL SAFETY DATA SHEET**75-85% Phosphoric Acid Solution**

Phosphoric acid has a low toxicity for aquatic life, however, this product can produce hydrogen gas when added to water or around metals.

Section 13 - DISPOSAL CONSIDERATIONS

Collect and process when possible. Follow neutralization with limestone or soda ash and field apply if possible. Check local, state and federal regulations for disposal.

Section 14 – TRANSPORT INFORMANTION

Proper Shipping description: PHOSPHORIC ACID, 8, UN1805, III
Reportable Quantity: 5000 lbs.
Hazardous Waste number: D0002

Section 15 – REGULATORY INFORMATION

SARA TITLE III HAZARD CATEGORY:	IMMEDIATE <u>Y</u>	FIRE <u>N</u>	SUDDEN
RELEASE	DELAYED <u>Y</u>	REACTIVE <u>Y</u>	OF PRESSURE <u>N</u>

SUBSTANCES REGULATED UNDER SARA, TITLE III, SEC. 313: Phosphoric Acid (CAS# 7664-38-2) 72% by weight

NFPA HAZARD RATING:

0 Least		
1 Slight	2	Health
2 Moderate	0	Flammability
3 High	2	Reactivity
4 Severe		

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MSDS REVISIONS: 05/05/2009

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