

Trade Name: Phosphoric Acid
Registration No: None

Section 9 Physical and Chemical Properties

Boiling Point: Approx. 277°F @ 1 atmosphere
Specific Gravity: 1.39 - 2.00
Flashpoint: Not applicable
pH: Strongly acidic; <1.0
Appearance: Green, viscous liquid. Odorless when cold; pungent when hot
Extinguishing Media: Non-flammable Use media suitable to extinguish source of fire.

Solubility in Water: Complete
% Volatiles (by volume): <1.0
Vapor Pressure, mm Hg: 5.0 @ 78°F
Reaction with Water: Exothermic, produces heat.

Section 10 Stability and Reactivity

Stability (Normal Conditions): Stable
Conditions to Avoid: Avoid contact with strong alkalis or metals other than certain stainless steels.
Incompatibility (Material to Avoid): Reacts violently with strong alkalis producing heat. Contact with many metals may result in severe corrosion attack of the metal and liberation of hydrogen gas.
Hazardous Decomposition Products: High temperatures will liberate phosphorus oxides
Hazardous Polymerization: Will not occur

Section 11 Toxicology Information

Acute Oral Toxicity: LD50 (rat) is greater than 1,530 mg/kg; not acutely toxic by oral exposure (TFI Product Testing Results, OECD Guideline 425)
Acute Dermal Toxicity: LD50 (rat) is greater than 3,160 mg/kg (ppm); not acutely toxic by dermal exposure. (TFI Product Testing Results, OECD Guideline 402).
Acute Inhalation Toxicity: LC50 (guinea pig, mouse, rat, rabbit) is 61-1,689 mg/m³; highly toxic by inhalation. (TFI Product Testing Results)
Acute Fish Toxicity: 96-hour LC50 is 3.0-35 mg/L (ppm); moderate toxicity to aquatic organisms (TFI Product Testing Results, OECD Guideline 203).

Section 12 Ecological Information

None Listed

Section 13 Disposal Considerations

Waste Disposal Procedures: Collect and reprocess where possible Following neutralization with limestone or soda ash, consult local, state and federal regulations before final disposal

Section 14 Transportation Information

Shipping Name: RQ Phosphoric Acid, 8, UN1805, PG III
Hazard Class: 8
Reportable Quantity (RQ): 5000 lbs.
Labels Required: Corrosive
Placard: Corrosive
Packaging Group: III
Refer to 49 CFR 172.101 Hazardous Material Table for further provisions, packaging authorizations and quantity limitations.

C.A.S. Number: 7664-38-2
D.O. T. Number: UN1805
Haz Waste No: 0002
EPA Regist No: None

Section 15 Regulatory Information

Carcinogenicity: by IARC?: Yes () No (X) by NTP?: Yes () No (X)

This product contains phosphoric acid, CAS No 7664-38-2, which is subject to the reporting requirements of section 313 of Title III of the Superfund Amendments Act of 1986 and 40 CFR Part 372.

Section 16 Other Information

Flash Point (Test Method):	Non-flammable	Flammable Limits	L	OWER	U	PPER
Autoignition Temperature:	Not applicable	(% BY VOLUME)	N/A		N/A	
Hazard Rating (N.F.P.A.):	Health: 2	Fire: 0	Reactivity:	0	Specific:	Not applicable

This N.F.P.A. rating is a recommendation by the manufacturer using the guidelines or published evaluations prepared by the National Fire Protection Association (N.F.P.A.).

MSDS Version Number: 1

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