

MATERIAL SAFETY DATA SHEET (MSDS)

Phosphonic acid

1. Product Identification

Synonyms: Orthophosphorous acid

CAS No.: 13598-36-2

Molecular Weight: 82.00

Chemical Formula: H3PO3

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2. Composition/Information on Ingredients

CAS#	Chemical Name:	%	EINECS#
13598-36-2	Phosphorous acid	98%	237-066-7
Hazard Symbols: C			

3. Hazards Identification

EMERGENCY OVERVIEW

Harmful if swallowed. Causes severe burns.

Potential Health Effects

Eye: Causes eye burns.

Skin: Causes skin burns.

Ingestion: Harmful if swallowed. May cause severe gastrointestinal tract irritation with nausea, vomiting and possible burns.

Inhalation: Causes chemical burns to the respiratory tract.

Chronic:

4. First Aid Measures

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Notes to Physician:

5. Fire Fighting Measures

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Extinguishing Media: Use foam, dry chemical, or carbon dioxide.

6. Accidental Release Measures

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

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container.

7. Handling and Storage

Handling: Do not breathe dust, vapor, mist, or gas. Do not get in eyes, on skin, or on clothing. Use only in a chemical fume hood.

Storage: Store in a cool, dry place. Store in a tightly closed container. Keep under a nitrogen blanket. Corrosives area.

8. Exposure Controls, Personal Protection

Engineering Controls:

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits

CAS# 13598-36-2:

Personal Protective Equipment

Eyes: Wear chemical splash goggles and face shield.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: A NIOSH/MSHA approved air purifying dust or mist respirator or European Standard EN 149.

9. Physical and Chemical Properties

Physical State: Crystals

Color: white

Odor: characteristic odor

pH: Not available

Vapor Pressure: Not available

Viscosity: Not available

Boiling Point: 200 deg C @760mmHg (392.00° F)

Freezing/Melting Point: 73 deg C (163.40° F)

Autoignition Temperature: Not available

Flash Point: > 100 deg C (> 212.00 deg F)

Explosion Limits: Lower: Not available

Explosion Limits: Upper: Not available

Decomposition Temperature:

Solubility in water: Soluble

Specific Gravity/Density: 1.650

Molecular Formula: H3O3P

Molecular Weight: 82

10. Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Air sensitive.

Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Incompatible materials, exposure to air, exposure to moist air or water.

Incompatibilities with Other Materials Metals, strong bases.

Hazardous Decomposition Products Phosphine, oxides of phosphorus.

Hazardous Polymerization Will not occur.

11. Toxicological Information

RTECS#: CAS# 13598-36-2: SZ6400000

LD50/LC50: RTECS:

CAS# 13598-36-2: Oral, mouse: LD50 = 1700 mg/kg;

Oral, rat: LD50 = 1895 mg/kg;

Carcinogenicity: Phosphorous acid - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other: See actual entry in RTECS for complete information.

12. Ecological Information

Other: Do not empty into drains.

13. Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

14. Transport Information

IATA IMO RID/ADR

Shipping Name: PHOSPHOROUS ACID PHOSPHOROUS ACID PHOSPHOROUS ACID

Hazard Class: 8 8 8

UN Number: 2834 2834 2834

Packing Group: III III III

15. Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: C

Risk Phrases:

R 22 Harmful if swallowed.

R 35 Causes severe burns.

Safety Phrases:

S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 13598-36-2: 1

Canada

CAS# 13598-36-2 is listed on Canada's DSL List

US Federal

TSCA

CAS# 13598-36-2 is listed on the TSCA Inventory.

16.Other Information

MSDS Creation Date: 7/16/1996

Revision #3 Date 4/25/2006

Disclaimer:

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