

Section 1: Identification

Product Name: Hypophosphorous Acid

CAS Number: 6303-21-5

Relevant identified uses of the substance or mixture:

Identified uses: Laboratory chemicals, Industrial & for professional use only.

Details of the supplier of the safety data sheet:

Company: Neemcco

264/9, Panchshil, Sion W

Mumbai 400022, India

Telephone: +91 22 22051070

Email: office@neemcco.com

Section 2: Hazard(s) Identification

Hazard Classification: Classification according to Regulation (EC) No 1272/2008

Skin corrosion (Category 1B), H314

Signal Word(s): Danger

Hazard Statements: H290 May be corrosive to metals.

H314 Causes severe skin burns and eye damage.

Pictograms:



Precautionary Statements:

P234 Keep only in the original container.

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 + P310

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P363 Wash contaminated clothing before reuse.

P390 Absorb spillage to prevent material damage.

P405 Store locked up.

P406 Store in corrosive resistant container with a resistant inner liner.

P501 Dispose of contents/ container to an approved waste disposal plant.

Section 3: Composition/ Information on Ingredients

Synonyms : Phosphinic acid

Formula : H₃PO₂

Molecular weight : 66.00 g/mol

Chemical Name	Synonym	CAS#	Conc.
Hypophosphorous Acid	Phosphinic Acid	6303-21-5	>= 50
Water		7732-18-5	<=50

Section 4: First-Aid Measures

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.

After eye contact: Rinse out with plenty of water. Immediately call the ophthalmologist. Remove contact lenses.

After inhalation: Fresh air. Call in the physician.

After swallowing: Make the victim drink water (two glasses at most), avoid vomiting (risk of perforation). Call a physician immediately. Do not attempt to neutralize.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labeling

Indication of any immediate medical attention and special treatment needed

No data available

Section 5: Fire-Fighting Measures

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide. Use extinguishing measures appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media: No limitations on extinguishing agents are given for this substance/mixture.

Special hazards arising from the substance or mixture: May liberate hazardous vapors in a fire (oxides of phosphorus).

Advice for firefighters: Wear self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or wearing suitable protective clothing.

Further information: Suppress gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or groundwater.

Section 6: Accidental Release Measures

Personal precautions: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

Measures for environmental protection: Do not let the product enter drains.

Measures for cleaning/collecting: Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up the affected area.

Section 7: Handling and Storage

Handling: For precautions see section 2.2.

Storage: No metal containers. Tightly closed.

Storage class (TRGS 510): 8B: Non-combustible, corrosive hazardous materials.

Section 8: Exposure Controls/Personal Protection

Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

Exposure controls

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Body Protection

Protective clothing

Respiratory protection

Recommended Filter type: Filter type ABEK

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure: Do not let products enter drains.

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Hypophosphorous Acid	Not available	Not available	Not available	Not available

Section 9: Physical and Chemical Properties

Form: Clear, liquid

Odor: No data available

Odor threshold: No data available

pH: 1.0 at 500 g/l at 20 °C (68 °F)

Melting point/melting range: No data available

Boiling point/boiling range: No data available

Flash point: No data available

Evaporation rate: No data available

Flammability: No data available

Upper/lower flammability or explosive limits: No data available

Auto ignition temperature: Not applicable

Danger of explosion: Not classified as explosive.

Vapor pressure: No data available

Vapor density: No data available

Relative density: 1.20-1.25 g/cm³ at 25°C

Solubility in/Miscibility with water: Soluble

Section 10: Stability and Reactivity

Reactivity: No data available

Chemical stability: The product is chemically stable under standard ambient conditions (room temperature).

Conditions to avoid: No information available

Incompatible materials: Strong oxidizing agents, Strong bases, Metals

Hazardous decomposition products: In the event of fire: see section 5

Section 11: Toxicological Information

Acute toxicity : No data available

Dermal: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity

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

NTP: No ingredient 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 on OSHA's list of regulated carcinogens.

Reproductive toxicity: No data available

Specific target organ toxicity - single exposure: No data available

Specific target organ toxicity - repeated exposure: No data available

Aspiration hazard: No data available

Section 12: Ecological Information

Toxicity: No data available

Persistence and degradability: No data available

Bioaccumulative potential: No data available

Mobility in soil: No data available

Results of PBT and vPvB assessment: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects: No data available

Section 13: Disposal Considerations

Product:

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself.

Section 14: Transport Information

IATA

UN number: 3264 | Class: 8 | Packing group: II

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Hypophosphorous acid)

DOT (US)

UN number: 3264 | Class: 8 | Packing group: II

Proper shipping name: Corrosive liquid, acidic, inorganic, n.o.s. (Hypophosphorous acid)

Poison Inhalation Hazard: No

IMDG

UN number: 3264 | Class: 8 | Packing group: II | EMS-No: F-A, S-B

Proper shipping name: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (Hypophosphorous acid)

Section 15: Regulatory Information

US Federal Regulations:

SARA Section 304 (extremely hazardous substances): This material does not contain any components with a section 304 EHS RQ.

SARA Section 313 (specific toxic chemical listings): This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

TSCA (Toxic Substances Control Act): Listed as active

Section 16: Other Information

NEEMCCO provides the information contained in this SDS in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to appropriate precautionary handling of the material by properly trained persons using this product. While the information is believed to be correct as of the date of this document, it is not exhaustive and should be used solely as a guideline for appropriate safety precautions.

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