

Section 1: Identification

Product Name: Aluminum Hypophosphite
CAS Number: 7784-22-7

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 400031, India

Telephone: +91 9820039043

Email: office@neemcco.com

Section 2: Hazard(s) Identification

Hazard Classification: Flammable solids, Category 2

Pictogram:

Signal Word(s): Danger

Hazard Statements: H228 Flammable solid

Precautionary Statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking

P240 - Ground & bond container & receiving equipment

P280 - Wear eye protection/ face protection

P337 + P313 - If eye irritation persists: Get medical advice/attention

Section 3: Composition/ Information on Ingredients

Synonyms : Aluminum Phosphinate
Aluminium hypophosphite

Formula : $\text{Al}(\text{H}_2\text{PO}_2)_3$

Chemical Name	CAS#	Concentration
Aluminum Hypophosphite	7784-22-7	>98%

Section 4: First-Aid Measures

After skin contact: Wash off with soap and water for at least 15 minutes.

After eye contact: Immediately flush eyes with plenty of water for at least 20 minutes, lifting upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. Seek medical attention.

After inhalation: Fresh air. Call in the physician.

After swallowing: Rinse mouth with water and call a physician immediately.

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: Suitable extinguishing media: Alcohol-resistant foam, dry chemical, or carbon dioxide.

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

Special hazards arising from the substance or mixture: May produce oxides of phosphorus and Aluminium in fire conditions

Advice for firefighters: Wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions: Avoid dust formation; avoid breathing vapors, mist, or gas. Use personal protective equipment.

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

Measures for cleaning/collecting: Sweep up and place in a suitable container for disposal.

Section 7: Handling and Storage

Handling: Use appropriate ventilation; avoid dust formation.

Storage: Store in a dry, well-ventilated area. Keep the container tightly closed.

Section 8: Exposure Controls/Personal Protection

Control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye/face protection: Safety goggles

Skin protection: Use gloves, typically nitrile conforming to NIOSH (US)

Respiratory protection: Use N95 or equivalent mask in dusty environments

Chemical Name	OSHA PEL	OSHA PEL (ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Aluminium hypophosphite	Not available	Not available	Not available	Not available

Section 9: Physical and Chemical Properties

Form: Solid Powder

Odor: No data available

pH: 3-4

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: 275°C

Vapor pressure: No data available

Vapor density: No data available

Density: 1.835-1.855 g/cm³

Solubility in/Miscibility with water: Low solubility in water (24 g/l)

Section 10: Stability and Reactivity

Reactivity: No data available

Chemical stability: Stable under recommended storage conditions

Conditions to avoid: Do not overheat

Incompatible materials: No data available

Hazardous decomposition products: Oxides of phosphorus and Aluminium

Section 11: Toxicological Information

Acute toxicity :

LD50 Oral (rat) >2000 mg/kg

LC50 Inhalation (rat) >3.3 mg/l

LD50 Dermal (rat) > 2000 mg/kg

Dermal: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No component is identified as a carcinogen by IARC, ACGIH, NTP, or OSHA.

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:

Toxicity to fish: LC50 - Danio rerio (previous name: Brachydanio rerio) - > 100 mg/L - 96 h.

Toxicity to daphnia and other aquatic invertebrates: EC50 - Daphnia magna > 100 mg/L - 48 h.

Toxicity to algae: EC50 - Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum) - > 100 mg/L - 72 h.

Toxicity to microorganisms: IC50 - activated sludge, domestic - > 100 mg/L - 3 h.

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

UN Number

ARD/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

UN Proper Shipping Name

ARD/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Transport Hazards Class

ARD/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Packing group

ARD/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

Environmental hazards: no

Special precautions for user: not required

Section 15: Regulatory Information

European Inventory of Existing Commercial Chemical Substances (EINECS): Not listed

United States Toxic Substances Control Act (TSCA) Inventory: Not listed

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC): Not listed

New Zealand Inventory of Chemicals (NZIoC): Not listed

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. 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. This document is intended only as a guide to appropriate precautionary handling of the material by properly trained persons using this product.

NEEMCCO and its affiliates shall not be held liable for any damage resulting from handling or contact with the product.

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