

## Section 1: Identification

**Product Name:** Calcium hypophosphite

**CAS Number:** 7789-79-9

**Relevant identified uses of the substance or mixture:**

Identified uses: Laboratory chemicals, industrial & 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:** Classification according to Regulation (EC) No 1272/2008

Flammable solids (Category 1), H228

**Signal Word(s):** Danger

Hazard Statements H228 Flammable solid

### Pictogram



### Precautionary Statements:

P264 - Wash face, hands and any exposed skin thoroughly after handling

P280 - Wear eye protection/ face protection

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

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

## Section 3: Composition/ Information on Ingredients

**Synonyms :** Calcium hypophosphite

**Formula :**  $\text{Ca}(\text{H}_2\text{PO}_2)_2$

**Molecular weight :** 170.06 g/mol

Chemical Name	Synonym	CAS#	Weight%
Calcium hypophosphite	Calcium Phosphinate Phosphinic acid, calcium salt	7789-79-9	<=100

## 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:** Move to 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: Water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

**Special hazards arising from the substance or mixture:** May produce oxides of phosphorus and calcium 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. Ensure adequate ventilation.

**Measures for environmental protection:** Prevent further spillage. 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. Keep away from ignition source.

**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

**Respiratory protection:** Use N95 or equivalent mask in dusty environments

Chemical Name	OSHA PEL	OSHA PEL (ceiling)		ACGIH OEL (TWA)	ACGIH OEL (STEL)
Calcium hypophosphate	Not available	Not available		Not available	Not available

## Section 9: Physical and Chemical Properties

**Form:** Powder

**Odor:** No data available

**Odor threshold:** No data available

**pH:** 6-8 (1% solution)

**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

**Density:** No data available

**Solubility in/Miscibility with water:** Soluble

## Section 10: Stability and Reactivity

**Reactivity:** No data available

**Chemical stability:** Stable under recommended storage conditions.

**Conditions to avoid:** Do not heat over: 200°C, the self-accelerating decomposition temperature can liberate phosphine gas. Avoid sparks

**Incompatible materials:** Strong acids and oxidizing agents.

**Hazardous decomposition products:** Oxides of phosphorus and Calcium.

## Section 11: Toxicological Information

**Acute toxicity :** LD50 Oral (rat) - no data available

**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

**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.

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## Section 14: Transport Information

### DOT (US)

- **UN Number:** 3178
- **Class & Packing Group:** 4.1, II
- **Proper Shipping Name:** Flammable Solid, Inorganic, N.O.S. (Calcium Phosphinate)
- **Poison Inhalation Hazard:** No

### IMDG

- **UN Number:** 3178
- **Class & Packing Group:** 4.1, II
- **EMS-No:** F-A, S-G
- **Proper Shipping Name:** Flammable Solid, Inorganic, N.O.S. (Calcium Phosphinate)

### IATA

- **UN Number:** 3178
- **Class & Packing Group:** 4.1, II
- **Proper Shipping Name:** Flammable Solid, Inorganic, N.O.S. (Calcium Phosphinate)

## 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.

No known OSHA hazards.

## 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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