

### 1. IDENTIFICATION

#### 1.1. Global Harmonised System (GHS) product identifier

- Product form: Mixture
- CAS-No: 7758-23-8
- CAS-No:7757-93-9

#### 1.2. Relevant identified uses and restrictions of use of the substance

- Recommended use: To be used as a plant fertilizer, as prescribed by a qualified agronomist.
- Restrictions of use: Do not mix with urea.

#### 1.3. Supplier details of the safety data sheet

- Global Phosphates (Pty) Ltd
- 72b van Ryneveld Ave, Pierre van Ryneveld, Pretoria
- +27 82 455 1717
- carina@globalphos.co.za

#### 1.4. Emergency phone number

- Production plant: +27 82 455 1717
- 24 hour emergency mobile: +27 83 228 6827

### 2. HAZARD IDENTIFICATION

#### 2.1. Classification of substance:

- **Classification according to Regulation (EC) No. 1272/2008 CLP:**
  - Serious eye damage, Category 1 H318
- **Adverse physicochemical, human health and environmental effects:**
  - No additional information available.

#### 2.2. Label Elements:

- **Labelling according to Regulation (EC)No. 1272/2008 (CLP):**

Hazard Pictograms (CLP)



GHS05

Signal word (CLP)	Danger
Hazard Statements	H335 – Causes serious eye damage
Precautionary statements (CLP)	<ul style="list-style-type: none"> <li>• P264 Wash hands and face thoroughly after handling</li> <li>• P265 Do not touch eyes</li> <li>• P280 Wear protective gloves, clothing, eye and face protection.</li> <li>• P305 IF IN EYES:</li> <li>• P338 Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>• P354 Immediately rinse with water for several minutes.</li> <li>• P317 Get medical help.</li> </ul>

**2.3. Other hazards:**

- No additional information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**3.1. Substances:** Not applicable.

**3.2. Mixtures:**

Ingredient Name	CAS number	%
Calcium bis(dihydrogenorthophosphate)	7758-23-8	66-74%
Calcium hydrogenphosphate	7757-93-9	24-33%

Full text of H-statements, see section 2

### 4. FIRST-AID MEASURES

**4.1. Description of necessary first-aid measures:**

- **First aid measures after inhalation:** CalSiPhos P16 is in the form of small particles, between 2mm-4mm. Do not ingest or swallow. When handling, some small dust particles may be emitted, avoid long periods of exposure. Move to an appropriate ventilated area if irritation occurs and see a physician if irritation persists.
- **First aid measures after skin contact:** Wash exposed areas of skin with soap and water. Obtain first aid treatment/see a physician if irritation persists.
- **First aid measures after eye contact:** Flush eyes thoroughly with water and seek medical advice.
- **First aid measures after ingestion:** Rinse mouth out with water and seek medical advice.

**4.2. Most important symptoms and effects, both acute and delayed:**

- **Symptoms/effects after inhalation:** May cause respiratory irritation.
- **Symptoms/effects after skin contact:** May cause skin irritation.
- **Symptoms/effects after eye contact:** Causes serious eye damage.

**4.3. Indication of any immediate medical attention and special treatment needed:**

- Treat symptomatically.

## 5. FIRE-FIGHTING & EXPLOSIVE MEASURES

**5.1. Extinguishing media:**

- CalSiPhos P16 is a nonflammable inorganic salt.
- Suitable extinguishing media: Use extinguishing media suitable for surrounding fire.
- Unsuitable extinguishing media: None identified. Water might slowly dissolve some of the product.

**5.2. Specific hazards that may arise:**

- No additional information available.

**5.3. Special protective actions for fire fighters:**

- Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. Fire-fighters should wear appropriate protective equipment. Avoid breathing dusts, vapours or fumes from burning materials.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1. Personal Precautions, protective equipment, and emergency procedures:**

- **For non-emergency personnel, emergency procedures:** Avoid contact with skin, eyes and clothing. Use appropriate mask, gloves, and eyewear as per general PPE standard industry practices when handling.
- **For emergency responders, protective equipment:** Avoid contact with skin, eyes and clothing. Use appropriate mask, gloves, and eyewear as per general PPE standard industry practices when handling.

**6.2. Environmental precautions:**

- CalSiPhos P16 is not hazardous to the environment however avoid release to the environment. Use as recommended by a qualified agronomist.

**6.3. Methods and materials for containment and cleaning up:**

- Should spillage occur, keep contained by physically sweeping or vacuuming and bundling the product into one heap and store in a suitable container. Ensure to wear appropriate PPE as per section 6.1.

## 7. HANDLING & STORAGE

**7.1. Precautions for safe handling:**

- Precautions for safe handling: Avoid breathing dust. Handle in a well-ventilated area wearing appropriate PPE as per section 6.1
- Hygiene measures: Wear appropriate PPE as per section 6.1. Wash hands, forearms and face thoroughly after accidental contact.

**7.2. Conditions for safe storage:**

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- Ensure product is stored in a cool, dry area, away from water. Caking can result if the product is exposed to moisture.

**7.3. Specific end use:**

- As per guidance from a qualified agronomist.

## **8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control Parameters**

- No additional information available.

**8.2. Personal protection measures/Exposure controls**

- Respiratory protection: Wear respiratory protection when handling. Handle in a well-ventilated area.
- Eye protection: Safety glasses with side shields are recommended if flying particles or dust emission is encountered.
- Skin and body protection: Wear suitable protective clothing, such as gloves and standard industry PPE overalls.
- Hand protection: Wear protective gloves.

## **9. PHYSICAL & CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties.**

- Physical state: Solid, granules
- Molecular mass: No data available
- Colour: Light to dark grey
- Odour: No data available
- Odour threshold: No data available
- pH: 3,6 when dissolved in water
- Relative evaporation rate: No data available
- Melting point: 449.85°C
- Freezing point: 449.85°C
- Boiling point: No data available
- Flash point: No data available
- Auto-ignition temperature: No data available
- Decomposition temperature: No data available
- Flammability (solid, gas): Non flammable
- Vapour pressure: No data available
- Relative vapour density at 20°C: No data available
- Relative density: No data available
- Density: No data available
- Water Solubility: 93.9 g/L @20°C
- Log Pow: No data available
- Viscosity: No data available

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- Explosive properties: Non-explosive
- Explosive limits: No data available

**9.2. Other information**

- No additional information available

## 10. STABILITY & REACTIVITY DATA

**10.1. Reactivity:**

- No additional information available.

**10.2. Chemical stability:**

- Stable under all normal conditions.

**10.3. Possibility of hazardous reactions:**

- No additional information available.

**10.4. Conditions to avoid:**

- Direct sunlight, moisture and heat.

**10.5. Incompatible materials:**

- Materials to avoid: High alkaline products.

**10.6. Hazardous decomposition products:**

- No additional information available.

## 11. TOXICOLOGICAL INFORMATION

**11.1. Toxicity data:**

- Acute toxicity: Not classified
- Skin corrosion/irritation: Not classified.
- Serious eye damage/irritation: Causes serious eye damage.
- Respiratory or skin sensitization: Not classified.
- Germ cell mutagenicity: Not classified.
- Carcinogenicity: Not classified.
- Reproductive toxicity: Not classified.
- STOT-single exposure: Not classified.
- STOT-repeated exposure: Not classified.
- Aspiration hazard: Not classified.

## 12. ECOLOGICAL INFORMATION

**12.1. Toxicity:**

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- No additional information available.

**12.2. Persistence and degradability:**

- No additional information available.

**12.3. Bio-accumulative potential**

- No additional information available.

**12.4. Mobility in soil**

- No additional information available.

**12.5. Other adverse effects:**

- No additional information available.

### **13. SPILL, LEAK & DISPOSAL MEASURES**

**13.1. Steps to be taken in case material is released or spilled**

- If uncontaminated, sweep up or collect, and reuse as product. If contaminated with other materials, collect in suitable containers. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

**13.2. Waste disposable method**

- Uncontaminated material can generally be disposed of an approved land disposal facility, in accordance with applicable federal, state and local regulations. Depending upon type and extent of contamination, if any, other disposal methods may be required by environmental regulatory agencies.

### **14. TRANSPORTATION HEALTH**

**14.1. UN Number:**

- Not classified.

**14.2. UN proper shipping name:**

- Not classified.

**14.3. Transportation hazard class(es)**

- Not classified.

**14.4. Packing group:**

- No data available.

**14.5. Environmental hazards:**

- Not classified as dangerous to the environment.
- Not classified as a marine pollutant.
- No other supplementary information available.

**14.6. Special precautions for user:**

- No other data available.

**15. REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations specific for the substance:**

- Fertilizers, farm feeds, seeds and remedies Act 36 of 1947
- Regulations for Hazardous Chemical Agents, 2021 (Occupational Health and Safety Act 85 of 1993)

**15.2. Chemical safety assessment**

- No additional information available

**16. SPECIAL PRECAUTIONS**

**16.1. Other protective equipment**

- None

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