

## Safety Data Sheet

### Section 1: Identification

**Product Name:** Simphos 21P Monocalcium Phosphate, Dicalcium Phosphate

**Product Form:** Mixture

**Company Identification:**

Origination, LLC  
1802 Wooddale Drive, Suite 200  
Woodbury, MN 55125

**For information, call:** 1-800-625-6079

**Emergency Number:** 1-800-625-6079

**For CHEMTREC assistance, call:** 1-800-424-9300

**For International CHEMTREC assistance, call:** 703-527-3887

### Section 2: Hazard(s) Identification

**Classification of the Substance or Mixture**

**GHS-US classification:**

Skin Irrit. 2: H315  
Eye Irrit. 2B: H320  
STOT SE 3: H335

**Hazard pictograms (GHS-US):** GHS07



**Signal word (GHS-US):** Warning

**Hazard statements (GHS-US):** H315 - Causes skin irritation, H320 - Causes eye irritation, H335 - May cause respiratory irritation

**Precautionary statements (GHS-US):**

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray  
P264 - Wash ... thoroughly after handling,  
P271 - Use only outdoors or in a well-ventilated area,  
P280 - Wear protective gloves/protective clothing/eye protection /face protection,  
P302+P352 - Wash with plenty of water,  
P304+P340 - If inhaled: Remove person to fresh air and keep comfort breathing,  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove lenses, if present and easy to do. Continue rinsing,  
P312 - Call a poison center/doctor/... if you fe  
P321 - Specific treatment (see ... on this label), P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P362 - Take off contaminated clothing and wash before reuse.  
P403+P233 - Store in a well-ventilated place. Keep tightly closed.  
P405 - Store locked up.

**Other hazards:** No additional information available.

**Unknown acute toxicity (GHS-US):** No data available.

### Section 3: Composition / Information on Ingredients

**Substance:** Not Applicable

Mixture Name	Product Identifier	%	GHS-US Classification
Calcium Phosphate	(CAS No) 7758-23-8		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
Dicalcium Phosphate	(CAS No) 7757-93-9		Eye Irrit. 2B, H320

*\*ingredients without WT% are considered proprietary based on trade secrets*

### Section 4: First Aid Measures

**First-aid measures general:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid measures after inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell.

**First-aid measures after skin contact:** Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention. Specific treatment (see ... on this label).

**First-aid measures after eye contact:** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**First-aid measures after ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

**Symptoms/injuries after inhalation:** May cause respiratory irritation.

**Symptoms/injuries after skin contact:** Causes skin irritation.

**Symptoms/injuries after eye contact:** Causes eye irritation.

**Indication of any immediate medical attention and special treatment needed:** No additional information available.

### Section 5: Fire Fighting Measures

#### Extinguishing Media

**Suitable extinguishing media:** Foam. Dry powder. Carbon dioxide. Water spray. Sand.

**Unsuitable extinguishing media:** Do not use a heavy water stream.

**Special hazards arising from the substance or mixture:** No additional information available.

#### Advice for Firefighters

**Firefighting instructions:** Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

**Protection during firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

## Section 6: Accidental Release Measures

### Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

**Emergency procedures:** Evacuate unnecessary personnel.

#### For emergency responders

**Protective equipment:** Equip cleanup crew with proper protection.

**Emergency procedures:** Ventilate area.

**Environmental precautions:** Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

**Methods and material for containment and cleaning up:** On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

**Reference to other sections:** See Heading 8. Exposure controls and personal protection

## Section 7: Handling and Storage

**Precautions for Safe Handling:** Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

**Hygiene measures:** Wash thoroughly after handling.

### Conditions for Safe Storage, Including Any Incompatibilities

**Storage conditions:** Keep only in the original container in a cool, well ventilated place away from direct sunlight. Keep container closed when not in use.

**Incompatible products:** Strong bases. Strong acids.

**Incompatible materials:** Sources of ignition. Direct sunlight.

**Specific end use(s):** No additional information available.

## Section 8: Exposure Controls, Personal Protection

**Control Parameters:** No additional information available

### Exposure Controls

**Personal protective equipment:** Avoid all unnecessary exposure.

**Hand protection:** Wear protective gloves.

**Eye protection:** Chemical goggles or safety glasses.

**Skin and body protection:** Wear suitable protective clothing.

**Respiratory protection:** Wear appropriate mask.

**Other information:** Do not eat, drink or smoke during use.

## Section 9: Physical and Chemical Properties

### Information on basic physical and chemical properties:

**Physical state:** Solid

**Appearance:** Granules.

**Colour:** Light gray

**Odour:** Characteristic

**Odour threshold:** No data available

**pH:** No data available

**Relative evaporation rate (butylacetate=1):** No data available

**Melting point:** No data available

**Freezing point:** No data available

**Boiling point:** No data available

**Flash point:** No data available

**Auto-ignition temperature:** No data available

**Decomposition temperature:** 100 °C

**Flammability (solid, gas):** No data available

**Vapour pressure:** No data available

**Relative vapour density at 20 °C:** No data available

**Relative density:** 0.88-0.99 (Water = 1)

**Density:** 56-62 lb/ft<sup>3</sup> (Bulk Density)

**Solubility:** Soluble.

**Water:** Solubility in water of component(s) of the mixture: • Calcium Phosphate: 1.8 g/100ml (30 °C) • Dicalcium Phosphate: 0.010 g/100ml

**Log Pow:** No data available

**Log Kow:** No data available

**Viscosity, kinematic:** No data available

**Viscosity, dynamic:** No data available

**Explosive properties:** No data available

**Oxidising properties:** No data available

**Explosive limits:** No data available

## Section 10: Stability and Reactivity

**Reactivity:** No additional information available

**Chemical stability:** Not established.

**Possibility of hazardous reactions:** Not established.

**Conditions to avoid:** Direct sunlight. Extremely high or low temperatures.

**Incompatible materials:** Strong acids. Strong bases.

**Hazardous decomposition products:** Fume. Carbon monoxide. Carbon dioxide.

### Section 11: Toxicological Information

**Acute toxicity:** Not classified

Calcium Phosphate (7758-23-8)	
LD50 oral rat	17500 mg/kg (Rat)
LD50 dermal rat	>2000 mg/kg (Rat)
ATE US (oral)	175000.00000000 mg/kg bodyweight

Dicalcium Phosphate (7757-93-9)	
LD50 oral rat	10000 mg/kg (Rat)
LD50 dermal rat	7940 mg/kg (Rat)
ATE US (oral)	10000.00000000 mg/kg bodyweight
ATE US (dermal)	7940.00000000 mg/kg bodyweight

**Skin corrosion/irritation:** Causes skin irritation.

**Serious eye damage/irritation:** Causes eye irritation.

**Respiratory or skin sensitization:** Not classified

**Germ cell mutagenicity:** Not classified

**Carcinogenicity:** Not classified

**Reproductive toxicity:** Not classified

**Specific target organ toxicity (single exposure):** Not classified

**Specific target organ toxicity (repeated exposure):** Not classified

**Aspiration hazard:** Not classified

**Potential adverse human health effects and symptoms:** Based on available data, the classification criteria are not met.

**Symptoms/injuries after inhalation:** May cause respiratory irritation.

**Symptoms/injuries after skin contact:** Causes skin irritation.

**Symptoms/injuries after eye contact:** Causes eye irritation.

### Section 12: Ecological Information

**Toxicity:** No additional information available

**Persistence and Degradability:**

Simphos 21P Monocalcium Phosphate, Dicalcium Phosphate	
Persistence and degradability	Not established.

Calcium Phosphate (7758-23-8)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

# 21p Monocalcium Phosphate, Dicalcium Phosphate



<b>Dicalcium Phosphate (7757-93-9)</b>	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable

## Bioaccumulative Potential

<b>Simphos 21P Monocalcium Phosphate, Dicalcium Phosphate</b>	
Bioaccumulative potential	Not established.

<b>Calcium Phosphate (7758-23-8)</b>	
Bioaccumulative potential	No bioaccumulation data available. Not established.

<b>Dicalcium Phosphate (7757-93-9)</b>	
Bioaccumulative potential	Not bioaccumulative. Not established.

**Mobility in soil:** No additional information available

**Other adverse effects**

**Effect on ozone layer:** No additional information available

**Effect on the global warming:** No known ecological damage caused by this product.

**Other information:** Avoid release to the environment.

## Section 13: Disposal Considerations (non-mandatory)

**Waste disposal recommendations:** Dispose in a safe manner in accordance with local/national regulations.

**Ecology - waste materials:** Avoid release to the environment.

## Section 14: Transport Information

**In accordance with DOT.** Not regulated for transport.

**Additional information:** No supplementary information available.

**ADR:** Transport document description

**Transport by sea:** No additional information available

**Air transport:** No additional information available

## Section 15: Regulatory Information

**US Federal Regulations:** All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

**Canada:** No additional information available.

**EU-Regulations:** No additional information available

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

**Classification according to Directive 67/548/EEC or 1999/45/EC**

**Not classified**

**National regulations:** No additional information available.

**US State regulations:** California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

## Section 16: Additional Information

**Prepared by:** Origination, LLC

**Prepared:** December 15, 2020

### **Disclaimer:**

*The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Origination be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Origination has been advised of the possibility of such damages.*