

Safety Data Sheet

Section 1: Identification

Product Name: Simphos 21P Monocalcium Phosphate, Dicalcium Phosphate

Product Form: Mixture

Company Identification:

Origination Inc.
1300 McKnight Road North
Maplewood, MN 55119

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 feel
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
contaminated clothing and wash before reuse P403+P233 - Store in a well-ventilated place. Keep
tightly closed, P405 - Store locked up P501 - Dispose of contents/container.

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/ft³ (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



Dicalcium Phosphate (7757-93-9)	
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

Simphos 21P Monocalcium Phosphate, Dicalcium Phosphate	
Bioaccumulative potential	Not established.

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

Dicalcium Phosphate (7757-93-9)	
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.

21p Monocalcium Phosphate, Dicalcium Phosphate



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, Inc.

Prepared: May, 2015

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.