

SAFETY DATA SHEET

MONOCALCIUM PHOSPHATE

SECTION 1: IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

1.1. Product identifier:

Substance name: Monocalcium Phosphate (calcium bis(dihydrogenorthophosphate))

EINECS No.: 231-837-1

REACH Registration No.: Monocalcium Phosphate is exempted from obligations of Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH)

Feed raw material

Catalogue No.: 11.3.3

CAS No.: 7758-23-8

1.2. Relevant identified uses of the substance and uses advised against

Relevant identified uses: Used as/for - feed raw material

Uses advised against: No uses advised against have been identified.

1.3. Details of the supplier of the safety data sheet

Supplier : SODIVAS

Street address: 13 A Rue Claude Bernard

Postcode/Place: 35400 SAINT-MALO – FRANCE

Telephone number: +33 299 192 570

Fax number: +33 299 192 571

1.4. Emergency telephone number (national anti-poison center)

For FRANCE : ORFILA Number (INRS) : +33 (0) 1 45 42 59 59

For BELGIUM : 070 245 245 (national anti-poison center)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance

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

Not classified.

2.1.2. Classification according to Directive 67/548/EEC

Not classified.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]:

Not labelled.

2.3. Other hazards

Potential health effect:

Eyes: May cause irritation or burning.

SECTION 3 : COMPOSITION / INFORMATION ON INGREDIENTS

CAS	Chemical name	%	EINECS
7758-23-8	Calcium bis(dihydrogenorthophosphate)	> 85	231-837-1
-	Other non-hazardous inorganic impurities	< 15	-

SECTION 4: FIRST AID MESURES**4.1. Description of first aid measures****4.1.1. First aid instructions****- General notes:**

Consult a physician if symptoms persist. First aiders should be protected adequately (*see section 8*). Remove affected person from further exposure.

- Following inhalation:

Remove to the fresh air. If not breathing give artificial respiration. If breathing is difficult, give oxygen.

- Following skin contact:

Immediately wash skin with soap and water for at least 15 minutes.

- Following eye contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

- Following ingestion:

Wash out mouth with water.

SECTION 5: FIRE-FIGHTING MEASURES**5.1. Extinguishing media:****- Suitable extinguishing media:**

Use media that is appropriate to treat surrounding fire.

- Unsuitable extinguishing media:

Not known.

- Special exposure hazards arising from the substance itself, combustion products, resulting gases:

During a fire, irritating gasses may be generated by thermal decomposition or combustion.

- Special protective equipment for fire-fighters:

Use firefighting procedure that is appropriate to treat surrounding fire. All fire-fighters should use self-contained breathing apparatus and full fire-fighting turn-out gear.

5.2. Special hazards arising from the substance or mixture**- Hazardous combustion products:**

Substance is not combustible.

5.3. Advice for fire-fighters

During a fire, irritating gasses may be generated by thermal decomposition or combustion. Wear self-contained breathing apparatus. In case of violent hazardous effect: Wear a special tightly sealed suit.

SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1. Personal precautions, protective equipment and emergency procedures**

Ventilate area of leak or spill. Avoid causing dust. Wear appropriate personal protective equipment.

6.2. Environmental precautions

Do not allow concentrated solutions to enter drainage system, surface ground water.

6.3. Methods and material for containment and cleaning up

Collect mechanically, sweep up the product and collect it for further use or reprocessing. Vacuuming or wet sweeping may be used to avoid dust dispersal. Sweep or vacuum up and place in appropriate closed container. Small amounts of residue may be flushed to sewer with plenty of water.

6.4. Additional information

No dangerous materials are released.

Note: see section 1 - for emergency contact, 8 -for personal protective equipment and section 13 - for waste disposal

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

7.1.1. Protective measures

Use only with adequate ventilation or wear appropriate respirator. Prevent spillage, avoid rising dust.

7.1.2. Advice on general occupational hygiene

Put on appropriate personal protective equipment. Avoid contact with skin, eyes and clothing. Use normal personal hygiene and housekeeping. Avoid breathing dust. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Note: For additional information see section 8.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Store the product in cool, dry area, away from the sunlight. Product is slightly hygroscopic and should be stored in a dry area to prevent moisture pick up and caking. Product packed in polyethylene bags should not exceed the temperature of 55°C.

Packaging materials

Bulk. Big bags or 25 kg or 50 kg Bags made of paper or polyethylene / polypropylene.

Requirements for warehouses and vessels

Warehouses and vessels should meet health and the hygiene requirements.

Store in closed, clean and free from pests and other risk factors, warehouses and containers. Protect from moisture and precipitations. Keep separately from other chemical substances.

Incompatible materials:

Not specified.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure controls

8.1.1. Appropriate engineering controls

Ventilate as necessary to eliminate dust from the work area. Ensure that eyewash stations and safety showers are close to the workstation location. *Note: For additional information see section 7.*

8.1.2. Personal protection equipment

Eye and face protection:

Chemical goggles to protect eyes from dust (EN 166:2001).

Skin protection:

Body protection: Laboratory coat or protective suit.

Hand protection: PVC, rubber or neoprene gloves.

Respiratory protection:

In case of insufficient ventilation use approved respirators (EN 141 or EN 405).

8.2.3. Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, engineering modifications to the process

equipment will be necessary to reduce emissions to acceptable levels.

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Note: for additional information see section 6.

8.2.4. Thermal hazards

Substance is not combustible. There are no special thermal hazards.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance: dry, white or grey, scentless, acidulous taste powder.

Odour: odourless

pH: $\geq 3,3$

Melting point: > 200 °C

Initial boiling point/ range: > 100 °C (decomposes)

Flash point: Not applicable for inorganic substances.

Flammability: Not flammable.

Vapour pressure (at 20 °C): not applicable for solid substances

Bulk density: 750 kg/m³ - 1000 kg/m³

Solubility (is) (at 20 °C): in water: 18 g/l, soluble in diluted acid

Oxidizing properties: Monocalcium Phosphate does not meet the criteria as an oxidizer.

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

Product is non-reactive in normal conditions of use.

10.2. Chemical stability

The product is stable under normal conditions. *See section 7.2*

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

See section 7.2

10.5. Incompatible materials

Not specified

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

In case of fire: *see section 5.*

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

11.1.1. Acute toxicity

LD50 (oral) rat: 17500 mg/kg

LD50 (oral) mouse: 15250 mg/kg

11.1.2. Skin corrosion/irritation

Not irritating to skin.

11.1.3. Serious eye damage/irritation

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Prolonged exposure to dust of Monocalcium Phosphate may irritate the eyes.

11.1.4. Respiratory or skin sensitization

Not sensitive to respiratory ways or skin.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity

Monocalcium Phosphate is not toxic for environment. Product does not produce toxic compounds either with the substances presents in the environment, nor in combination with water.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

13.1.1. Product / Packaging disposal: Waste codes / waste designations according to EWC / AVV

EWC: Not Listed.

13.1.2. Waste treatment options

Dispose of in accordance with all federal, state and local regulations.

SECTION 14: TRANSPORT INFORMATION

ADR: Non-hazardous for road transport.

RID: Non-hazardous for rail road transport.

IMDG: Non-hazardous for sea transport.

IATA: Non-hazardous for air transport.

SECTION 15: REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance

EU regulations:

- Directive 2002/32/EC of the European Parliament and of the Council of 7 May 2002 on undesirable substances in animal feed.
- Regulation (EC) No 1831/2003 of the European Parliament and of the Council of 22 September 2003 laying down requirements for feed hygiene.
- Regulation (EC) No 767/2009 of the European Parliament and of the Council of 13 July 2009 On the placing on the market and use of feed, amending European Parliament and Council Regulation (EC) No 1831/2003 and repealing Council Directive 79/373/EEC, Commission Directive 80/511/EEC, Council Directives 82/471/EEC, 83/228/EEC, 93/74/EEC, 93/113/EC and 96/25/EC and Commission Decision 2004/217/EC.
- Commission regulation (EU) No 277/2012 of 28 March 2012 amending Annexes I and II to Directive 2002/32/EC of the European Parliament and of the Council as regards maximum levels and action thresholds for dioxins and polychlorinated biphenyls.
- Commission Regulation (EU) No 744/2012 of 16 August 2012 amending Annexes I and II to Directive 2002/32/EC of the European Parliament and of the Council as regards maximum levels for arsenic, fluorine, lead, mercury, endosulfan, dioxins, Ambrosia spp., diclazuril and lasalocid A sodium and action thresholds for dioxins.
- Commission Regulation (EU) No 68/2013 of 16 January 2013 on the Catalogue of feed materials.

SECTION 16: OTHER INFORMATION**16.1. Indication of changes**

Version 03 of Safety data sheet, prepared according EC regulation (EC) Nr. 453/2010.

16.2. Key literature references and sources for data

Producer's Standards / MSDS and Specifications for Monocalcium Phosphate

CRC handbook of chemistry and physics, 89th edition. 2008-2009, p.46.

<http://chem.sis.nlm.nih.gov/chemidplus/jsp/common/Toxicity.jsp>

16.3. Abbreviations and acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DNEL - Derived No Effect Level

EINECS - European Inventory of Existing Commercial Substances

EN - European Standard

EU - European Union

EWC - European Waste Catalogue

GHS - Globally Harmonized System

IATA - International Air Transport Association

IMDG - International Maritime Dangerous Goods

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

OEL - Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic substance

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety Data Sheet

vPvB - Very Persistent and Very Bioaccumulative

Disclaimer: The information in this Safety Data Sheet shall be available to all people whose work is related with the chemical substance described therein. The information provided corresponds with our knowledge and is used to describe the chemical product with regards to occupational health and safety, and environmental aspects. The information of the Safety Data Sheet will be updated / supplemented in case of new evidence of impact of the chemical substance to health and environment, or new preventive measures to eliminate or avoid hazard. The information provided for in the Safety Data Sheet does not describe other special properties of the chemical product.