

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Issue date: 9/15/2011 Revision date: 12/1/2020 Supersedes version of: 12/8/2017 Version: 3.1

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Trade name : Monocalcium phosphate

Chemical name : Calcium bis(dihydrogenorthophosphate)

 EC-No.
 : 231-837-1

 CAS-No.
 : 7758-23-8

 Type of product
 : Mineral

 Formula
 : Ca(H₂PO₄)₂.H₂O

 Product group
 : Raw material

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Animal feed

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

Fosfatos de Cartagena S.L.U. C/ Los Parales, s/n Valle de Escombreras 30350 Cartagena (Murcia) - España

Distributor

TIMAB IBERICA C/Arago, 264, 2°-2a 08007 Barcelone - Espagne

T 00 34 934 674 455 - F 00 34 934 672 287 contact@phosphea.com - www.phosphea.com

1.4. Emergency telephone number

Country	Official advisory body	Address	Emergency number	Comment
Europe/Middle- East/Africa	3E		+1-760-476-3961 (Access code : 333021)	(24/7)
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 1 H318

Full text of H statements : see section 16

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)



Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Signal word (CLP) : Danger

Hazard statements (CLP) : H318 - Causes serious eye damage.

Precautionary statements (CLP) : P280 - Wear protective gloves, protective clothing, eye protection, face shield.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor/physician.

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

SECTION 3: Composition/information on ingredients

3.1. Substances

Substance type : Mono-constituent

1	Name	Product identifier		Classification according to Regulation (EC) No. 1272/2008 [CLP]
(Calcium bis(dihydrogenorthophosphate)	(CAS-No.) 7758-23-8 (EC-No.) 231-837-1	100	Eye Dam. 1, H318

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : Move the affected person away from the contaminated area and into the fresh air. If not

breathing, give artificial respiration. If irritation persists, consult a doctor.

First-aid measures after skin contact : Remove all contaminated clothing and footwear. Rinse with plenty of water. If case of

redness or irritation, call a doctor.

First-aid measures after eye contact : Wash immediately with plenty water (during 20 minutes), also under eyelids. Remove

contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist immediately, even if there are no immediate symptoms. If possible show him this sheet.

Failing this, show him the packaging or label.

First-aid measures after ingestion : If swallowed, rinse mouth with water (only if the person is conscious). Do not induce

 $vomiting\ without\ medical\ advice.\ If\ swallowed,\ seek\ medical\ advice\ immediately\ and\ show$

this container or label.

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

Symptoms/effects after eye contact : Serious damage to eyes.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : water, carbon dioxide (CO2), powder and foam. Use extinguishing media appropriate for

surrounding fire.

Unsuitable extinguishing media : None known

12/1/2020 (Version: 3.1) EN (English) 2/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : On combustion or on thermal decomposition (pyrolysis) releases : Phosphorus oxides.

Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Contain the extinguishing fluids by

bunding.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Complete protective

clothing. EN 469. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.

Methods for cleaning up : Clean up immediately by sweeping or vacuum. Minimise generation of dust. Collect up the

product and place it in a spare container suitably labelled.

Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Do not breathe dust. Use personal protective

equipment as required. Avoid contact with eyes. Emergency eye wash fountains should be

available in the immediate vicinity of any potential exposure.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands and other exposed areas

with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

(see section(s): 1.2. Relevant identified uses of the substance or mixture and uses advised against).

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Calcium bis(dihydrogenorthophosphate) (7758-23-8)

DNEL/DMEL (Workers)

Long-term - systemic effects, inhalation 4.07 mg/m³ (Results obtained on a similar product)

12/1/2020 (Version: 3.1) EN (English) 3/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

DNEL/DMEL (General population)		
Long-term - systemic effects, inhalation	3.04 mg/m³ (Results obtained on a similar product)	
PNEC (STP)		
PNEC sewage treatment plant	50 mg/l (Results obtained on a similar product)	

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.

Personal protective equipment:

Gloves. Safety glasses. Protective clothing.

Hand protection:

Neoprene protective gloves. Butyl-rubber protective gloves. Nitrile rubber. PVC gloves

Eye protection:

Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product. EN 166

Skin and body protection:

Protective clothing

Personal protective equipment symbol(s):







Environmental exposure controls:

Take all necessary measures to avoid accidental discharge of products into drains and waterways due to the rupture of containers or transfer systems. Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

Other information:

See Heading 7: 7.1. Precautions for safe handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Powder. Granulate.

Molecular mass : 234.053 g/mol

Colour : White.

Odour : Odourless.

Odour threshold : Not established

pH : 3 – 3.5

pH : 3-3. pH solution : 10 %

Relative evaporation rate (butylacetate=1) : No data available Melting point : > 450 °C

Freezing point : No data available Boiling point : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable : Not determined Decomposition temperature Flammability (solid, gas) : Not applicable Vapour pressure : Not applicable Relative vapour density at 20 °C : No data available

Relative density : 2.22

Solubility : Water: 180 g/l (30 °C)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Partition coefficient n-octanol/water (Log Pow) : Not specifically applicable Viscosity, kinematic : No data available Viscosity, dynamic : No data available

Explosive properties : Product is not explosive.

Oxidising properties : Non oxidizing material according to EC criteria.

Explosive limits : No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

On exposure to high temperature, may decompose, releasing toxic gases.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

On combustion or on thermal decomposition (pyrolysis) releases : Phosphorus oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

Calcium bis(dihydrogenorthophosphate) (7758-23-8)	
LD50 oral rat	3986 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.6 mg/l/4h (OECD 403)

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)

pH: 3 - 3.5

Serious eye damage/irritation : Causes serious eye damage. ((OECD 405 method))

pH: 3 – 3.5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met (read-across))

Carcinogenicity : Not classified (Lack of data)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

Additional information : NOAEL (oral, rat) : >= 500 mg/kg (read-across)

STOT-single exposure : Not classified (Lack of data)

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Technical impossibility to obtain the data)

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term

m : Not classified

(acute)

Hazardous to the aquatic environment, long-term

· Not classified

(chronic)

Calcium bis(dihydrogenorthophosphate) (7758-23-8)	
LC50 fish 1	> 100 mg/l/96h (Oncorhynchus mykiss) (read-across)
EC50 Daphnia 1	> 100 mg/l/48h (Daphnia magna) (read-across)
ErC50 (algae)	> 100 mg/l/72h (Desmodesmus subspicatus) (read-across)

12.2. Persistence and degradability

Calcium bis(dihydrogenorthophosphate) (7758-23-8)

Persistence and degradability Not established.

12.3. Bioaccumulative potential

Calcium bis(dihydrogenorthophosphate) (7758-23-8)

	,
Partition coefficient n-octanol/water (Log Pow)	Not specifically applicable
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

Calcium bis(dihydrogenorthophosphate) (7758-23-8)

Mobility in soil No data available

12.5. Results of PBT and vPvB assessment

Calcium bis(dihydrogenorthophosphate) (7758-23-8)

Results of PBT assessment

The product does not meet the PBT and vPvB classification criteria

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

12/1/2020 (Version: 3.1) EN (English) 6/8

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

ADR	IMDG	IATA	ADN	RID
14.1. UN number	14.1. UN number			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippin	g name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard o	class(es)			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Calcium bis(dihydrogenorthophosphate) is not on the REACH Candidate List

Calcium bis(dihydrogenorthophosphate) is not on the REACH Annex XIV List

Monocalcium phosphate is not subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 july 2012 concerning the export and import of hazardous chemicals.

Monocalcium phosphate is not subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Indication of changes:

This sheet was updated (refer to the date at the top of this page).

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

: Chemical safety report (CSR). IUCLID. HSDB (Hazardous Substances Data Bank). Data sources

Full text of H- and EUH-statements:	
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
H318	Causes serious eye damage.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.