

### 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
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

TIMAB TUNISIE  
ZI de Ghannouch  
6000 Gabès - Tunisie  
T 00 216 75 273 883 - F 00 216 75 277 466  
[contact@phosphea.com](mailto:contact@phosphea.com)

##### Distributor

TUNIFEED  
ZI de Ghannouch  
6000 Gabès - Tunisie  
T 00 216 75 273 883 - F 00 216 75 277 466

##### Distributor

STEP SARL  
6 Rue Ibn Hazm, Cité les jardins Belvédère  
1002 Tunis - Tunisie  
F 00 216 75 277 466

#### 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)

### 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) :



GHS05

Signal word (CLP) :

: Danger

Hazard statements (CLP) :

: H318 - Causes serious eye damage.

Precautionary statements (CLP) :

: P280 - Wear protective gloves, protective clothing, eye protection, face protection.  
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, a doctor.

#### 2.3. Other hazards

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

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

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent

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 (CO <sub>2</sub> ), powder and foam. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

#### 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.

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### 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/m<sup>3</sup> (Results obtained on a similar product)

##### DNEL/DMEL (General population)

Long-term - systemic effects, inhalation : 3.04 mg/m<sup>3</sup> (Results obtained on a similar product)

##### PNEC (STP)

PNEC sewage treatment plant : 50 mg/l (Results obtained on a similar product)

DNEL : 4.07 mg/m<sup>3</sup> (Results obtained on a similar product)

PNEC : 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:

Safety glasses. Gloves. Protective clothing.

##### Materials for protective clothing:

Wear suitable 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 : Granulate.

Colour : White.

Odour : Odourless.

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Odour threshold	: Not established
pH	: 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
Decomposition temperature	: Not determined
Flammability (solid, gas)	: Not applicable
Vapour pressure	: Not applicable
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 0.9 - 1.1 g/cm <sup>3</sup>
Solubility	: Soluble in 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 (mg/l)	> 2.6 mg/l/4h (OECD 403)
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met) pH: 3
Serious eye damage/irritation	: Causes serious eye damage. ((OECD 405 method)) pH: 3
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)

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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 (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### 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)

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

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number</b>				
Not applicable	Not regulated	Not regulated	Not applicable	Not applicable
<b>14.2. UN proper shipping name</b>				
Not applicable	Not regulated	Not regulated	Not applicable	Not applicable
<b>14.3. Transport hazard class(es)</b>				
Not applicable	Not regulated	Not regulated	Not applicable	Not applicable
<b>14.4. Packing group</b>				
Not applicable	Not regulated	Not regulated	Not applicable	Not applicable
<b>14.5. Environmental hazards</b>				
Not applicable	Not regulated	Not regulated	Not applicable	Not applicable

No supplementary information available

#### 14.6. Special precautions for user

##### Overland transport

Not applicable

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### Transport by sea

Not regulated

### Air transport

Not regulated

### 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

Calcium bis(dihydrogenorthophosphate) 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.

Calcium bis(dihydrogenorthophosphate) 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

Listed on the United States TSCA (Toxic Substances Control Act) inventory

Listed on the Canadian DSL (Domestic Substances List)

### 15.2. Chemical safety assessment

No additional information available

## SECTION 16: Other information

Abbreviations and acronyms:	
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
EC50	Median effective concentration
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association
LD50	Median lethal dose

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

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.*