

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

1.1. Product identifier

Product form	: Substance
Trade name	: MAG26
Chemical name	: Magnesium phosphate
EC-No.	: 231-823-5
CAS-No.	: 7757-86-0
Type of product	: Mineral
Formula	: $MgHPO_4 \cdot 3H_2O$
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 product safety information sheet

Supplier

TIMAB INDUSTRIES
57 Boulevard Jules Verger
35800 Dinard - France
T +33 2 99 16 53 00 - F +33 2 99 16 51 60
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]

Not classified

Adverse physicochemical, human health and environmental effects

To our knowledge, this product does not present any particular risk, provided it is handled in accordance with good occupational hygiene and safety practice.

2.2. Label elements

According to EC directives or the corresponding national regulations there is no labelling obligation for this product.

No labelling applicable

2.3. Other hazards

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

MAG26

Product Safety Information Sheet

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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]
Magnesium phosphate	(CAS-No.) 7757-86-0 (EC-No.) 231-823-5	100	Not classified

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Go into open air and ventilate suspected area.
First-aid measures after skin contact : Remove all contaminated clothing and footwear. Rinse with water.
First-aid measures after eye contact : Rinse thoroughly and plentifully with water, also under the eyelids. Consult an eye specialist.
First-aid measures after ingestion : Do not induce vomiting. Rinse mouth out with water. Drink plenty of water. Get medical advice/attention.

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

Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : None under normal conditions.
Symptoms/effects after eye contact : May cause slight irritation.
Symptoms/effects after ingestion : None under normal conditions.

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

No data available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : All extinguishing media allowed. water, carbon dioxide (CO₂), powder and foam.
Unsuitable extinguishing media : None known.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.
Explosion hazard : Not explosive.
Reactivity in case of fire : No data available.
Hazardous decomposition products in case of fire : No data available.

5.3. Advice for firefighters

Precautionary measures fire : Ensure adequate ventilation, especially in confined areas.
Protection during firefighting : Do not attempt to take action without suitable protective equipment.
Other information : Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid dust formation.

MAG26

Product Safety Information Sheet

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6.1.1. For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

6.1.2. For emergency responders

Protective equipment : Wear recommended personal protective equipment.

6.2. Environmental precautions

Avoid release to the environment. Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

6.3. Methods and material for containment and cleaning up

For containment : Collect spillage.
Methods for cleaning up : Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation. Do not breathe dust. Avoid contact with skin and eyes.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Does not require any specific or particular technical measures.
Storage conditions : Store in dry, cool, well-ventilated area. Maintain air gap between stacks/pallets.
Storage temperature : ≤ 25 °C
Special rules on packaging : Keep only in original container.
Packaging materials : Polyethylene. Polypropylene.

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

No additional information available

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:

Dust/aerosol mask. Gloves. Safety glasses. Protective clothing.

Materials for protective clothing:

Wear suitable protective clothing

Hand protection:

PVC gloves. Butyl rubber. Natural rubber. Nitrile rubber. Neoprene rubber (HNBR). Chemical resistant gloves (according to European standard NF EN 374 or equivalent)

MAG26

Product Safety Information Sheet

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Eye protection:

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

Skin and body protection:

Wash contaminated clothing before reuse. Rubber boots. Protective clothing

Respiratory protection:

Dust formation: dust mask. EN 149. Insufficient ventilation: wear respiratory protection

Personal protective equipment symbol(s):



Environmental exposure controls:

Comply with applicable regulations. Avoid creating or spreading dust. 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.

Consumer exposure controls:

The substance is not classified for human health hazards or for environment effects and it is not PBT or vPvB so that no exposure assessment or risk characterisation is required. For tasks where the intervention of workers is required, the substance must be handled in accordance with good industrial hygiene and safety procedures.

Other information:

See Heading 7 : 7.1. Precautions for safe handling. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: Granulate.
Molecular mass	: 120.28 g/mol
Colour	: Beige. light cream.
Odour	: Odourless.
Odour threshold	: No data available
pH	: 8
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	: No data available
Decomposition temperature	: 550 – 650 °C
Flammability (solid, gas)	: Not flammable
Vapour pressure	: Not applicable.
Relative vapour density at 20 °C	: No data available
Relative density	: 2.17
Solubility	: insoluble in water. Soluble in acids. Water: 0.578 g/l at 20 °C
Partition coefficient n-octanol/water (Log Pow)	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: Product is not explosive.
Oxidising properties	: Non oxidizing.
Explosive limits	: No data available

MAG26

Product Safety Information Sheet

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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

Stable at ambient temperature and under normal conditions of use.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

None to our knowledge.

10.6. Hazardous decomposition products

No additional information available

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)

Magnesium phosphate (7757-86-0)	
LD50 oral rat	> 2000 mg/kg bodyweight (OECD 420 method)
LD50 dermal rabbit	> 2000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 2.6 mg/l/4h

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 8
Serious eye damage/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 8
Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

MAG26

Product Safety Information Sheet

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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment. Ecological problems are not known or expected under normal use.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

Magnesium phosphate (7757-86-0)	
LC50 fish 1	> 13.5 mg/l (OECD 203 method)
EC50 Daphnia 1	> 2.9 mg/l (OECD 202 method)
EC50 72h algae 1	> 4.4 mg/l (OECD 201 method)

12.2. Persistence and degradability

Magnesium phosphate (7757-86-0)	
Persistence and degradability	Not applicable (inorganic substance).

12.3. Bioaccumulative potential

Magnesium phosphate (7757-86-0)	
Bioaccumulative potential	Bioaccumulation unlikely.

12.4. Mobility in soil

Magnesium phosphate (7757-86-0)	
Ecology - soil	No additional information available.

12.5. Results of PBT and vPvB assessment

Magnesium phosphate (7757-86-0)	
Results of PBT assessment	The product does not meet the PBT and vPvB classification criteria

12.6. Other adverse effects

Additional information : Avoid release to the environment.

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. If recycling is not possible, eliminate in accordance with local valid waste disposal regulations.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Avoid release to the environment.
Ecology - waste materials	: Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.

SECTION 14: Transport information

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

MAG26

Product Safety Information Sheet

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ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

14.6. Special precautions for user

Special transport precautions : Avoid release to the environment.

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

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

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

Magnesium phosphate is not on the REACH Candidate List

Magnesium phosphate is not on the REACH Annex XIV List

MAG26 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.

MAG26 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 EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

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

Listed on NZIoC (New Zealand Inventory of Chemicals)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Listed on the AICS (Australian Inventory of Chemical Substances)

Listed on the Canadian DSL (Domestic Substances List)

Listed on KECL/KECI (Korean Existing Chemicals Inventory)

MAG26

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15.2. Chemical safety assessment

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP]
Exempted from REACH registration

SECTION 16: Other information

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Abbreviations and acronyms:

ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LD50	Median lethal dose
NOEC	No-Observed Effect Concentration
PBT	Persistent Bioaccumulative Toxic
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
vPvB	Very Persistent and Very Bioaccumulative
LC50	Median lethal concentration
EC50	Median effective concentration

Data sources : Chemical safety report (CSR).

SDS EU (REACH Annex II)