

# Material Safety Data Sheet

According 1907/2006/EC

## Van Iperen Magnesium Nitrate Hexahydrate

### 1. Identification of substance/preparation and of the company/undertaking

1.1 Product name :	Van Iperen Magnesium Nitrate Hexahydrate	
Nr CAS	13446-18-9	
Nr WE	233-826-7	
Registration number:	01-2119491164-38-0015	
1.2. Relevant identified uses of the substance or mixture.	Used as a granular fertilizer mineral containing magnesium and nitrogen and as a chemical intermediate.	
1.3. Details of the supplier of the safety data sheet		
Supplier	Van Iperen International Smidsweg 24, Westmaas P.O. Box 1333, 2360 AH Oud-Beijerland (The Netherlands)	
Telephone	+31 (0) 186 57 88 88	
Fax	+31 (0) 186 57 34 52	
E-mail (competent person)	info@iperen.com	
1.4. Emergency Telephone Number		
Belgium	Centre Anti-Poisons/Antigifcentrum	(+32) 70 245 245
France	Centre Antipoisons - Centre de Pharmacovigilance	(+33) 4 72 11 69 11
Germany	Giftinformationszentrale Göttingen	(+49) 551 19240
Ireland	National Poisons Information Centre	(+353) 1 8379964
Italy	Centro antiveleni	(+39) 02 66 10 10 29
Netherlands	National Poisons Information Centre	(+31) 30 274 88 88
Norway	National Poison Information Centre	(+47) 22 59 13 00
Spain	Servicio de Información Toxicológica	(+34) 91 562 04 20
Portugal	Centro de Informação Antivenenos	(+351) 21 330 3284
United Kingdom	UK National Poisons Emergency	(+44) 870 600 6266

### 2. Hazards identification

2.1. Classification of the substance or mixture  
Classification according to Regulation (EC) No. 1272/2008:

Eye Irritant 2

**H319** - Causes serious eye irritation. .

**Classification according to directive 67/548/EEC:**

**None.**

2.2. Label elements GHS

Hazard pictogram



**GHS07 WARNING**

**H319** - Causes serious eye irritation. Eye Irritant 2 .

#### Precautionary statements

##### Prevention

**P264** Wash hands thoroughly after handling.

**P280** Wear protective gloves/protective clothing/eye protection/face protection.

##### Response

**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**P337+P313** If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

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## Van Iperen Magnesium Nitrate Hexahydrate

### 3. Composition/information on ingredients

3.1. Substances	Identifier	Classification	% weight
<b>Name of substance</b> Magnesium nitrate hexahydrate	CAS 13446-18-9 WE 233-826-7	1272/548/EC  Eye Irritant 2 <b>H319</b> - Causes serious eye irritation.	99

**Chemical formulas: Mg(NO<sub>3</sub>)<sub>2</sub> x 6 H<sub>2</sub>O**  
**Molecular weight. 256,41**

### 4. First aid measures

#### 4.1. Description of first aid measures

Attention:

Causes irritation to eyes and digestive system (if swallowed) and skin.

Eye contact:

- Immediately flush eyes with large amounts of water for at least 15 minutes while holding the eyelids open to ensure that the entire surface is flushed
- Seek medical advice

Ingestion:

- Wash mouth out with water. Drink 1-2 glass of water.
- Seek medical advice.

Skin contact:

- After contact with skin, wash with plenty of water
- To take off contaminated cloths.

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

CARCINOGENIC EFFECTS: Not available. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available

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

No additional information available.

In the case of abnormal symptoms contact with medicine doctor.

### 5. Fire fighting measures

#### 5.1. Extinguishing media

Use water only!. Contact professional fire-fighters immediately. For small fires, do NOT use chemicals, carbon dioxide, halon or foams. For large fires flood fire with water from a distance.

#### 5.2. Special hazards arising from the substance or mixture

In case of fire, the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Protective equipment:

High temperatures may cause pressure build-up in closed containers.

During the thermal decomposition produced of harmful compounds.

Reduce dust and vapour with water spray.

Brown fumes containing toxic nitrogen oxides

Explosive mixture:

Not applicable-non-explosive.

#### 5.3. Advice for firefighters

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

Clothing resistant to high temperatures.

Independent self-contained breathing apparatus.

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## *Van Iperen Magnesium Nitrate Hexahydrate*

### 6. Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment (section 8).

Avoid contact with eyes.

Do not let this chemical enter the environment.

Do not ingest.

#### 6.2. Environmental precautions

Avoid direct discharge into drains.

#### 6.3. Methods and material for containment and cleaning up

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary:

Collect up the product and place it in a sealable container . Suitably labeled.

Transfer carefully to container.

Then take the spare containers to an area reserved for subsequent recycling or disposal.

Do not put the cast down material back into the original container, for re-use.

Avoid prolonged or repeated exposure.

#### 6.4. Reference to other sections

Section 8.

Section 13.

### 7. Handling and storage

#### 7.1. Precautions for safe handling

Keep in original containers in a covered warehouse.

Storage in dry area.

Protect from direct sunlight.

#### 7.2. Conditions for safe storage, including any incompatibilities

Keep away from incompatibles such as reducing agents, flammable agents, strong acids

Keep away from foodstuffs, beverages and feed.

Keep away from heat and sources of ignition.

#### 7.3. Specific end use(s)

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### 8. Exposure controls / personal protection

#### 8.1. Control parameters

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

#### 8.2. Exposure controls

Engineering Controls:

No engineering controls.

Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with eyes.



Eye protection

Use safety goggles.

Protection of hands

The selected protective gloves have to satisfy the specifications of UE Directive 89-689-EEC and standard EN 374 derived from it.

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## Van Iperen Magnesium Nitrate Hexahydrate

Body protection  
Use work clothes and shoes.

### 9. Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Appearance:	Solid. color: white, white-yellow.
Odour:	Specific.
pH (5% solution):	6 - 7
Flash point:	Inorganic substances.
Melting / freezing point:	95°C at 1013 hPa
Initial boiling point and boiling range:	Not available.
Flashpoint:	No data.
Evaporation Rate:	No data.
Flammability (solid);	Not flammable.
Relative density at 20°C:	1.46 g/cm <sup>3</sup>
Water solubility:	225 g/100 g water
Upper / lower flammability or upper / lower explosion limit:	Not applicable-non-combustible.
Vapor Pressure:	<0.00001 Pa at 20 ° C
Partition coefficient:	n-octanol/water:Not available
Auto-ignition temperature:	No data.
Decomposition temperature:	No data.
Explosive properties:	Not explosive
Viscosity:	Not applicable.9.2.
Other information	

### 10. Stability and reactivity

#### 10.1. Reactivity

Reactive with strong reducing agents.

#### 10.2. Chemical stability

Under normal storage and use of the substance is chemically stable.

#### 10.3. Possibility of hazardous reactions

The substance reacts with strong reducing agents.

#### 10.4. Conditions to avoid

Avoid contact with strong heat sources such as solar radiation and flames.

#### 10.5. Incompatible materials

Strong reducing agents.

#### 10.6. Hazardous decomposition products

Intensive heated to temperatures > 330 ° C followed by decomposition with emission of toxic gases (nitrogen oxides).

### 11. Toxicological information

#### 11.1. Acute toxicity

Substances

LD50 (oral):> 2000 mg / kg

LD50 (dermal):> 5000 mg / kg

**on the eyes: irritating to eyes.** Substance may cause irritation, burning and tearing.

**ingestion:** swallowing small amounts can cause headache, dizziness, nausea, vomiting.

Swallowing large quantities can cause severe gastrointestinal disorders.

**sensitization by inhalation or skin;** no sensitizing effects known.

**other information:** no data.

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## *Van Iperen Magnesium Nitrate Hexahydrate*

### Repeated dose toxicity

For NOAEL:  $\geq 1500$  mg / kg / day (subacute effect, rat)

There is no effect on classification.

### Delayed and chronic effects:

**Carcinogenicity:** Magnesium nitrate hexahydrate is not a carcinogen

**Mutagenicity:** Magnesium nitrate hexahydrate is not mutagenic.

**Reproductive toxicity:** The substance is not a threat to fertility. .

**NOAEL:**  $\geq 1500$  mg / kg / day (orally)

**Narcosis:** Not available.

## 12. Ecological information

### 12.1. Toxicity

magnesium nitrate hexahydrate

There is no direct test for magnesium nitrate.

The data were based on studies of similar substances.

LC50 for freshwater fish: 1378 mg / L

EC50/LC50 for freshwater invertebrates: 490 mg / L

EC50/LC50 for freshwater algae: $> 1700$  mg / L

EC10/LC10 or freshwater algae NOEC: 1700 mg / L

EC50/LC50 aquatic microorganisms: $> 1000$  mg / L

EC10/LC10 or NOEC aquatic organisms: 180 mg / L

PNEC aqua (water freshwater): 0.45 mg / L

PNEC aqua (sea water): 0.045 mg / L

PNEC (broken version): 4.5 mg / L

### 12.2. Persistence and degradability

Decomposition under anaerobic conditions in wastewater treatment plants.

### 12.3. Bioaccumulative potential

The substance has a low potential for biodegradation

### 12.4. Mobility in water and soil

Freely soluble in water. Very quickly penetrates into the groundwater.

### 12.5. Results of PBT and vPvB assessment

The substance has not PBT and vPvB assesment.

### 12.6. Other adverse effects

None.

## 13. Disposal consideration

### 13.1. Waste treatment methods

Waste Removal: Apply as fertilizer or transfer for disposal.

Disposing of the packaging: Empty containers contain residue of material on the inner surfaces. Thoroughly empty containers to be transmitted to authorized waste collector

Empty packaging completely.

Prevent pollution of surface waters.

Contaminated packaging:

EC codes:

15 01 02 plastic packaging;

Prohibition: Do not dispose of untreated packing with ordinary industrial wastes.

NOTE: The user's attention is drawn to the possible existence of local regulations regarding disposal.

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## Van Iperen Magnesium Nitrate Hexahydrate

### 14. Transport information

14.1. Number information

-

14.2. UN proper shipping name

-

14.3. LAND TRANSPORT ADR/RID (CROSS / BORDER)

-

14.4. MARITIME TRANSPORT IMDG

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14.5. AIR TRANSPORT ICAO-TI and iata-dgr

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### 15. Regulatory information

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

- Regulation (EC) No 1272/2008 (CLP) of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (REACH).
- REGULATION (EC) No 1907/2006 OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.
- COMMISSION REGULATION (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

### 16. Other information

The meaning of risk phrases from sections: 2 - 3

H319

Causes serious eye irritation. Eye Irrit. 2

This information is based on the present state of our knowledge, they are no assurance of product features and shall not establish a contractual relationship.

- Department issuing MSDS:
- Abbreviations and Acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

PP: Severe Marine Pollutant

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

Legend:

n.a. = Not applicable / n.a. = Grouting not / Not available = Checked to / not k.D.v. = No data available

- Data from the previous version changed:

The information in this safety data sheet is required pursuant to EC Directive 91/155/EEC and its amendments.

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## ***Van Iperen Magnesium Nitrate Hexahydrate***

Information for the reader:

*The information provided in this Safety Data Sheet is given in good faith and belief in its accuracy based on our knowledge of the substance/preparation concerned at the date of publication.*

*It does not imply the acceptance of any legal liability or responsibility whatsoever by the company for the consequences of its use or misuse in any particular circumstances.*

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