

# Material Safety Data Sheet

## MAGNESIUM NITRATE HEXAHYDRATE

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

#### Identification of the substance or preparation

Substance name: MAGNESIUM NITRATE HEXAHYDRATE  
Synonyms: Nitric acid, magnesium salt, hexahydrate, not oxidizing  
Magnesium(II)nitrate, hexahydrate, not oxidizing  
Type: Pure substance  
Hygroscopic substance. Preventive measures apply to the substance in dry state only  
CAS no: 13446-18-9 Formula:  $\text{Mg}(\text{NO}_3)_2 \cdot 6\text{H}_2\text{O}$   
EINECS no 233-826-7 Molecular weight: 256.41  
EC-no:

#### Use of the substance/preparation

- Fertilizer

#### Company/undertaking identification

Name: Van Iperen B.V.  
Address: Smidsweg 24  
Postal code: 3273 LK  
Residence: Westmaas  
Country: The Netherlands  
Telephone no: +31 (0)186-578888  
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e-Mail: info@iperen.com  
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#### Emergency telephone

+31 (0)186-578888

### 2. Hazards identification



Irritating

Irritating to eyes, respiratory system and skin

### 3. Composition/information on ingredients

Name	CAS no EINECS no	Concentration	Labeling	R phrases (1)
MAGNESIUM NITRATE HEXAHYDRAAT	13446-18-9 233-826-7	100%	Xi	36/37/38

(1) Complete text of R/H phrases: see chapter 16

### **MAGNESIUM NITRATE HEXAHYDRATE**

#### **4. First aid measures**

**Commonly:** in case of doubt goes always to medical help and show the doctor this document.

**After inhalation**

Remove the victim into fresh air. Respiratory problems: consult a doctor/medical service.

**Skin contact**

Rinse with water. Take victim to a doctor if irritation persists.

**Eye contact**

Rinse with water. Remove contactlens if possible. Take victim to an ophthalmologist if irritation persists.

**After ingestion**

Rinse mouth with water. Immediately after ingestion: give lots of water to drink. Victim is fully conscious: immediately induce vomiting. Call Poison Information Centre ([www.big.be/antigif.htm](http://www.big.be/antigif.htm)). Consult a doctor/medical service if you feel unwell. Ingestion of large quantities: immediately to hospital.

#### **5. Fire-fighting measures**

**Suitable extinguishing media**

EXTINGUISHING MEDIA FOR SURROUNDING FIRES :All extinguishing media allowed.

**Unsuitable extinguishing media**

not applicable.

**Special exposure hazards**

On burning: release of toxic and corrosive gases/vapours nitrous vapours.

**Instructions**

Dilute toxic gases with water spray.

**Special protective equipment for fire-fighters**

Heat/fire exposure: compressed air/oxygen apparatus.

### MAGNESIUM NITRATE HEXAHYDRATE

#### 6. Accidental release measures

##### Personal precautions

Avoid raising dust. Keep away from naked flames/heat.

Use suitable means of protection: Safety glasses, gloves, protective clothing.

Dust cloud production: compressed air/oxygen apparatus.

##### Environmental precautions

Contain released substance, pump into suitable containers. Plug the leak, cut off the supply. Prevent spreading in sewers. Knock down/dilute dust cloud with water spray.

##### Methods for cleaning up

Stop dust cloud by humidifying. Scoop solid spill into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

#### 7. Handling and storage

##### Handling

Use all normal precautions which must be applied at all chemical substances. Comply with the legal requirements. Use suitable means of protection. Clean contaminated clothing. Thoroughly clean/dry the installation before use.

##### Storage

Store in a dry area. Keep container in a well-ventilated place. Keep away from heat, ignition sources and incompatible substances. Meet the legal requirements. No data available.

##### SPECIAL REQUIREMENTS:

Closing, watertight, dry, clean, correctly labelled, meet the legal requirements.

Secure fragile packagings in solid containers.

##### Specific use(s)

Fertilizer in the agri- and horticulture.

#### 8. Exposure controls/Personal protection

##### Exposure limit values: not determined

##### Exposure controls

Carry operations in the open/under local exhaust/ventilation or with respiratory protection.

##### RESPIRATORY PROTECTION

Dust production: dust mask with filter type P1.

##### HAND PROTECTION

Gloves.

##### EYE PROTECTION

Safety glasses. In case of dust production: protective goggles.

##### SKIN PROTECTION

Protective clothing. No data available.



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## MAGNESIUM NITRATE HEXAHYDRATE

### 9. Physical and chemical properties

#### General information

Form:	Solid, Flakes
Odour:	odourless
Colour:	White to light yellow

#### Important health, safety and environmental information

pH value:	$\pm 7$ (5 gram/100 ml)
Relative density:	$\pm 1.6$
Solubility:	Water $\pm 120$ g/100ml Alcohol infinite

### 10. Stability and reactivity

#### Stability

Stable under the rise recommended and treatment circumstances (heading 7).

#### Conditions to avoid

Hygroscopic.

#### Materials to avoid

KEEP SUBSTANCE AWAY FROM:

water/moisture, organic, materials, reducing agents.

#### Hazardous decomposition products

On burning: release of toxic and corrosive gases/vapours nitrous vapours.

### 11. Toxicological information

LD50 oral rat:  $\pm 5440$  mg/kg

ROUTES OF EXPOSURE: INGESTION, INHALATION, EYES AND SKIN

#### ACUTE EFFECTS/SYMPTOMS

AFTER INHALATION OF DUST:

Coughing. Nausea.

AFTER ABSORPTION OF HIGH QUANTITIES:

Abdominal pain. Vomiting. Methemoglobinemia. Dizziness. Feeling of weakness. Respiratory difficulties. Blue/grey discolouration of the skin. Disturbances of consciousness. Slight irritation. Slight irritation.

ON CONTINUOUS/REPEATED EXPOSURE/CONTACT:

Methemoglobinemia. Slightly irritant to eyes. Non-toxic if swallowed (LD50 oral, rat  $>5000$  mg/kg). No toxicity data on skin absorption. Slightly irritant to skin. No toxicity data on inhalation. Slightly irritant to respiratory organs. Obstructs oxygen absorption.

#### CHRONIC EFFECTS

Not classified as toxic to reproduction (EC).

Not listed in mutagenicity class (EC, MAK).

Not listed in carcinogenicity class (IARC, EC, TLV, MAK).

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### MAGNESIUM NITRATE HEXAHYDRATE

#### 12. Ecological information

**Ecotoxicity**

Mild water pollutant (surface water). Insufficient data available on ecotoxicity. Slightly harmful to aquatic organisms. May cause eutrophication.

**Mobility**

Soluble in water.

**Persistence and degradability**

Biodegradability: not applicable.

**Bioaccumulative potential**

Bioaccumulation: not applicable.

**Other adverse effects**

Not dangerous for the ozone layer (Council Regulation (EC). No 2037/2000, O.J. L244 of 29/09/2000).

#### 13. Disposal considerations

Name:	MAGNESIUM NITRATE, HEXAHYDRATE, NOT OXIDIZING
Waste code:	06 03 14 solid salts and solutions other than those mentioned in 06 03 11 and 06 03 13
	06 10 99 wastes not otherwise specified
1st KGA code:	V V
2nd KGA code:	

**DISPOSAL METHODS**

Treat using the best available techniques before discharge into drains or the aquatic environment. Remove to an authorized dump. Precipitate/make insoluble.

#### 14. Transport information

not dangerously for transport under UN, ADR/RID/IMO

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### MAGNESIUM NITRATE HEXAHYDRATE

#### 15. Regulatory information

Note:



Irritating

R36/37/38 Irritating to eyes, respiratory system and skin

S24/25 Avoid contact with skin and eyes

Not classified as dangerous in compliance with Directive 67/548/EEC and/or Directive 1999/45/EC.

#### 16. Other information

The complete text of the R phrases mentioned in chapter 3:

R36/37/38 Irritating to eyes, respiratory system and skin

##### Version-information:

Date of mutation: 18-dec-2009

Version: 01.00

##### 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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