

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND OF THE COMPANY / UNDERTAKING

Product: Magnesium Nitrate Hexahydrate

REACH Registration number: 01-2119491164-38-XXXX

CAS number: 13446-18-9

EC number: 233-826-7

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

Relevant identified uses

Industrial use: fertiliser

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2. HAZARDS IDENTIFICATION

Classification of substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

H319; Eye Irrit. 2

Label Elements

Hazard pictograms:



Signal word: Warning

Hazard statement:

H319: Eye Irrit. 2 – Causes serious eye irritation

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Precautionary statement:

Prevention:

P264 – Wash 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.

Other hazards

Harmful if swallowed, in contact with skin or if inhaled

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substances

Name:	Magnesium Nitrate Hexahydrate
CAS No:	13446-18-9
EC No:	233-826-7
REACH Registration No:	01-2119491164-38-XXXX
Conc. (%w/w):	
Classification:	H319; Eye Irrit. 2

4. FIRST AID MEASURES

Description of first aid measures

Skin contact:	May cause irritation to skin. Wash off immediately with plenty of soap and water. Remove contaminated clothing. Seek medical attention if irritation or symptoms persist.
Inhalation:	Inhalation may cause coughing, tightness of the chest and irritation of the respiratory system. Move the exposed person to fresh air. Seek medical attention if irritation or symptoms persist.
Ingestion:	Harmful if swallowed. DO NOT INDUCE VOMITING. May cause irritation to mucous membranes. Rinse mouth thoroughly. Seek medical attention if irritation or symptoms persist.
Eye contact:	Causes serious eye irritation. Rinse immediately with plenty of water for 15 minutes holding the eyelids open. Seek medical attention.

Most important symptoms and effects, both acute and delayed

Inhalation:	May cause irritation to mucous membranes.
Eye contact:	May cause irritation to eyes.
Skin contact:	May cause irritation to skin.
Ingestion:	Ingestion is irritating to respiratory tract and may cause damage to the central nervous system.

Indication of any immediate medical attention and special treatment needed

Inhalation:	Remove the affected person from the source of contamination immediately. Seek medical attention if irritation or symptoms persist.
Eye contact:	Causes serious eye irritation. Rinse immediately with plenty of water for 15 minutes holding the eyelids open.
Skin contact:	May cause irritation to skin. Wash off immediately with plenty of soap and water. Seek medical attention if irritation or symptoms persist.

[cont...]

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Ingestion: Ingestion may cause nausea and vomiting. DO NOT INDUCE VOMITING. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Seek medical attention if irritation or symptoms persist.

5. FIRE-FIGHTING MEASURES

Extinguishing media This product is not flammable. Use extinguishing media appropriate to the surrounding fire conditions.

Special hazards arising from the substance or mixture: Burning produces irritating, toxic and obnoxious fumes.

Advice for fire fighters: Wear suitable respiratory equipment when necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation of the working area. Wear suitable protective equipment.

Environmental Precautions Do not allow product to enter drains. Prevent further spillage if safe. Do not flush into surface water.

Methods and material for containment and cleaning up

Collect and reuse if possible. Otherwise: absorb with inert, absorbent material. Sweep up. Transfer to suitable, labelled containers for disposal. To clean the floor and all objects contaminated by this material, use water.

Reference to other sections See section 2, 8, 13 for further information.

7. HANDLING AND STORAGE

Precautions for safe handling

Ensure adequate ventilation of the working area. Avoid contact with eyes and skin. Adopt best Manual Handling considerations when handling, carrying and dispensing.

Conditions for safe storage, including any incompatibilities

Keep in a cool, dry, well-ventilated area. Store in correctly labelled containers. Store at temperatures between 5°C and 20°C.

Suitable packaging: Plastic containers

Specific end use(s) Fertiliser

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters Ensure adequate ventilation of the working area.

Exposure controls

Appropriate engineering controls: Ensure adequate ventilation of the working area.

Individual protection measures: Wear suitable protective clothing.

Eye/face protection: In case of splashing, wear eye protection. Approved safety goggles.

Skin protection/Hand protection: Chemical resistant gloves (PVC)

Respiratory protection: Wear suitable protective equipment.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Crystals
Colour:	White
Odour:	Odourless
Odour threshold:	No data available
pH:	No data available
Melting point:	95
Initial boiling point:	No data available
Flash point:	No data available
Evaporation rate:	No data available
Flammability (solid/gas):	Not applicable.
Vapour pressure:	No data available
Vapour density:	Not determined.
Relative density:	1.46
Partition coefficient	No data available
Auto ignition temperature:	No data available
Viscosity:	No data available
Explosive properties:	Not relevant
Oxidising properties:	Not applicable
Solubility:	Soluble in water

10. STABILITY AND REACTIVITY

Reactivity	Stable under normal conditions.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	No data is available on this product.
Conditions to avoid	No data is available on this product.
Incompatible materials	Will not decompose if stored and used as recommended.
Hazardous decomposition products	No data is available on this product.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute toxicity:	Irritating to eyes.
Skin corrosion/irritation:	May cause irritation to skin.
Serious eye damage/irritation:	Causes serious eye irritation.
Respiratory or skin sensitisation:	May cause sensitisation by inhalation and skin contact.
Germ cell mutagenicity:	No data is available on this product.
Carcinogenicity:	No data is available on this product.
Reproductive toxicity:	No data is available on this product.
STOT-single exposure:	No data is available on this product.
STOT-repeated exposure:	No data is available on this product.
Aspiration hazard:	No data is available on this product.
Repeated or prolonged exposure:	No data is available on this product.

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Toxicological information

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Dermal Rat LD50: >5000 mg/kg
Oral Rat LD50: >2000 mg/kg

12. ECOLOGICAL INFORMATION

Toxicity:

Magnesium Nitrate Hexahydrate: Daphnia EC50/48h: 490.0000 mg/l
Fish LC50/96h: 1378.0000 mg/l

No data is available on this product. May cause long-term adverse effects in the aquatic environment.

Persistence and degradability: Warning – this preparation contains a substance not yet tested completely.

Bio accumulative potential: Caution – substance not yet fully tested.

Partition coefficient: Magnesium Nitrate Hexahydrate: No data available.

Mobility in soil: Caution – substance not yet fully tested.

Results of PBT and vPvB assessment: Warning – this preparation contains a substance not yet tested completely.

Other adverse effects: Warning – this preparation contained a substance not yet tested completely.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods: Dispose of in compliance with all local and national regulations.

General information: Do NOT reuse empty containers.

Disposal methods: Do not empty into drains; dispose of this material and its container in a safe way.

Disposal of packaging: Empty containers can be cleaned with water. Can be recycled if in compliance with local and national regulations.

14. TRANSPORT INFORMATION

In accordance with ADR/RID/IMDG/IATA/AND:

UN number: Not classified as hazardous for transport.

UN proper shipping name: Not classified as hazardous for transport.

Transport hazard class(es): Not classified as hazardous for transport.

Packing group: Not classified as hazardous for transport.

Environmental hazards: Not classified as hazardous for transport.

Special precautions for the user: Not classified as hazardous for transport.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not classified as hazardous for transport.

[cont...]

15. REGULATORY INFORMATION

Chemical Safety Assessment: No data available.

Note: The regulatory information given above only indicates the principal regulations specifically applicable to the product described in the safety data sheet. The user's attention is drawn to the possible existence of additional provisions which complete these regulations. Refer to all applicable national, international and local regulations or provisions.

16. OTHER INFORMATION

Acronyms:

@ - at

< - less than

> - more than

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road

CAS – Chemical Abstracts Service

Cat. – Category

CSA – Chemical Safety Assessment

DNEL – Derived No-Effect Level

EC – Effective Concentration

EC OEL – European Commission Occupational Exposure Limit

EINECS - European Inventory of Existing Commercial Chemical Substances

GHS – Globally Harmonized System of Classification and Labelling of Chemicals

H** - Hazard Statements

IATA – International Air Transport Association

IMDG – International Maritime Code for Dangerous Goods

L – Litre

LC50 – Lethal Concentration, 50 percent

LD50 – Lethal dose, 50 percent

m³ – metre cubed

mg – milligram

ml – millilitre

n.o.s. – Not Otherwise Specified

°C – degrees Centigrade

P** - Precautionary Statements

PBT – Persistent, bio accumulative and Toxic

pH – Potential of Hydrogen

PNEC – Predicted No-Effect Level

RID – Regulations Concerning the International Transport of Dangerous Goods by Rail

SDS – Safety Data Sheet

SG – specific gravity

UN – United Nations

vPvB – very Persistent, very Bio accumulative

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Legal disclaimer:

The information contained in this SDS does not constitute a risk assessment, and should not replace the user's own assessment of risks as required by other health and safety legislation. This advice is given by Nexchem Ltd who accept no legal liability for it except otherwise provided by law. The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties.