



# SAFETY DATA SHEET

## 1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : M 10229  
Product Name : **Magnesium Nitrate L.R.**

Manufacturer / supplier identification  
Company : NICE Chemicals (P) Ltd. , Cochin , India  
Tel - 0484 2800212 , 2802755

Contact For Information : Tel . No. – 0484 2802536 Fax : 0484 2802483  
Emergency Telephone No. : 0484 2801583 Telefax No. : 0484 2802483

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## 2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms: Chloro calcium

CAS-No : 13446-18-9 Ec-Index No. :  
Molar Mass : 256.41 EC-No. : 233-826-7  
Molecular Formula :  $MgN_2O_6 \cdot 6H_2O$

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3. **HAZARDS IDENTIFICATION** : Contact with combustible material may cause fire.

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4. **FIRST AID MEASURES** : After inhalation : fresh air .  
After skin contact : wash off with plenty  
of water . Remove contaminated clothing .  
After eye contact : rinse out with plenty of water  
With eyelids held open . Summon eye specialist .  
After swallowing :  
make victim drink plenty of water, Induce  
vomiting , summon doctor.

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5. **FIRE – FIGHTING MEASURES:** Suitable extinguishing media : In adaption to  
materials stored in the immediate neighbourhood.  
Special risks : Fire promoting . Keep away from  
Combustible materials. Development of hazardous  
combustion gases or vapours in the event of fire.



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The following may develop in event of fire:  
nitrous gases  
Other information:  
Non combustible

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**6. ACCIDENTAL RELEASE MEASURES:** Person – related precautionary measures  
Avoid generation of dusts, do not  
Inhale dusts.  
  
procedure for cleaning / absorption :  
Take up dry. Forward for disposal Clean up  
affected area

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**7. HANDLING AND STORAGE :** Handling : : No further requirements .  
Storage : Tightly closed .In a well ventilated place.  
Place, away from sources of ignition and heat.  
Storage temperature : no restrictions.

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION :** Personal protective equipment  
Respiratory protection : required when dusts  
are generated .  
Eye protection : required  
Hand protection : required  
Industrial hygiene : Change contaminated clothing .  
Wash hands and face after working with substance.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form : solid  
Colour : white  
odour : odourless  
PH value : near 5-7

At 50 mg/l H<sub>2</sub>O (20<sup>0</sup> C )



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Melting temperature : -89-95 °C  
Boiling temperature : Not available  
Ignition temperature : Not available  
Flash point : Not available  
Explosion limits lower : Not available  
Upper : Not available  
Relative vapour density : Not available  
Density (20°C) : 1.45 g/cm<sup>3</sup>  
Solubility in  
water (20°C) : 1250 g/l  
ethanol (25°C) : freely soluble

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**10. STABILITY AND REACTIVITY** : Conditions to be avoided : Heating.  
Substance to be avoided : organic combustible substances.  
Hazardous decomposition products :  
In the event of fire nitrous gases.  
Further Information: hygroscopic, explosible  
Releases water of crystallization when heated.

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**11. TOXICOLOGICAL INFORMATION**

Acute toxicity

LD<sub>50</sub> (oral, rat): 5440 mg/Kg  
Further toxicological information  
After skin contact: slight irritations  
After swallowing: nausea, vomiting  
After eye contact: Irritations  
Property which must be anticipated on the basis of structure.  
Effect considerations  
After absorption of large quantities: tiredness,  
Methaemoglobinaemia with headache, cardiac arrhythmia,  
drop in blood pressure, blue discoloration of blood.  
Further data:  
Further hazardous properties cannot be excluded.  
The product should be handled with the care usual when  
dealing with chemicals.

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12. **ECOLOGICAL INFORMATION** : Behaviour in environmental compartments:

Evaluation number (FRG) (fish): 23;

Evaluation number (FRG) (mammal) : 1

Ecotoxic effects:

Biological effects: Endangers drinking water supplies

if allowed to enter soil or water.

Further ecological data:

The following applies to magnesium compounds in general:

Lethal for fish 100-400 mg/l

The following applies to nitrites in general: may contribute

To the eutrophication of water supplies. Hazard for drinking water. Fish LC<sub>50</sub>> 500mg/l.

Do not allow to enter waters, waste water, or soil..

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13. **DISPOSAL METHOD** :

Product : There are no uniform EC regulations for

The disposal of chemicals or residues. Chemical

residues generally count as special waste. The

disposal of the latter is regulated in the EC

member countries through corresponding laws

and regulations . We recommend that you contact

either the authorities in charge or approved waste

disposal companies which will advise you on

how to dispose of special waste .

Packaging : Disposal in compliance with official

Regulations . Handle contaminated packaging as

In the same way as the substance itself . If not

officially specified differently , non – contaminated

packaging may be treated like household waste

or recycled .

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## 14. TRANSPORT INFORMATION

Transport over land

ADR/RID and GGVs/GGVE : GGVs/GGVE class: 5.1 Number and letter: 22c

ADR/RID class : 5.1 Number and letter: 22c

Name of material : MAGNESIUMNITRATE

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class: 5.1 UN -No.: 1474 Packaging group: III

Ems : 5.1-06 MFAG: 235

Correct technical name: MAGNESIUMNITRATE

Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class: 5.1 UN/ID-No.: 1474 Packaging group: III

Correct technical name: MAGNESIUMNITRATE

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## 15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : O Oxidising

R- Phrases : 8 Contact with combustible material may cause fire.

S-phrases : 24/25 Avoid contact with skin and eyes.

Water pollution class : 1 (slightly polluting substance)

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## 16. OTHER INFORMATION

Reason for alteration

The information contained herein is based on the present state of our knowledge. It characterises the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

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