

MATERIAL SAFETY DATA SHEET

DSCL (Pictograms)	DSCL (Classification)	Protective Clothing
	R8- Contact with combustible material may cause fire.	 

MAGNESIUM NITRATE CRYSTALLINE

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

Product name	: MAGNESIUM NITRATE CRYSTALLINE	Supplier	: NULANDIS (A Division of AECI Ltd) 14 Field Road, Lillanton
		Manufacturer	: NULANDIS (A Division of AECI Ltd) 14 Field Road, Lillanton
Synonyms	: Fertilizer.		
Emergency telephone number	: Griffon Poison information centre: 082 446 8946 Poisons Information Helpline: 0861 555 777 Nulandis: (011) 823 8000 (o/h) Enviroserv: 0800 147 112 (a/h)		

2. Composition / information on ingredients

Substance/Preparation : Preparation

Chemical name*	CAS No.	%	Symbol	R-Phrases
Magnesium Nitrate	10377-60-3	100	O	R8

* Occupational Exposure Limit(s), if available, are listed in section 8

3. Hazards identification

Physical/chemical hazards : Contact with combustible material may cause fire.

4. First-aid measures

First-Aid measures

- Inhalation** : If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
- Ingestion** : Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin Contact** : In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
- Eye Contact** : Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

Effects and symptoms

- Inhalation** : Over-exposure by inhalation may cause respiratory irritation.
- Ingestion** : Harmful if swallowed.
- Eye Contact** : This product is a severe eye irritant.

Aggravating conditions : Repeated or prolonged exposure is not known to aggravate medical condition.

5. Fire-fighting measures

Extinguishing Media

Suitable : Do not use water jet. Use flooding quantities of water. Avoid contact with organic materials.

Hazardous thermal (de)composition products : These products are nitrogen oxides (NO, NO₂...). Some metallic oxides.

Special fire-fighting procedures : Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

Protection of fire-fighters : Be sure to use an approved/certified respirator or equivalent.

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6. Accidental release measures

Personal precautions : Splash goggles. Gloves.

Environmental Precautions and Clean-up Methods : Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

7. Handling and storage

Handling : Keep away from heat. Keep away from sources of ignition. Keep away from combustible material. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Do not breathe dust.

Storage : Keep container tightly closed. Keep container in a cool, well-ventilated area. Separate from acids, alkalies, reducing agents and combustibles. See NFPA 43A, Code for the Storage of Liquid and Solid Oxidizers.

Packaging materials

Recommended use : Use original container.

8. Exposure controls/personal protection

Engineering measures : Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Hygiene measures : Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day.

Occupational Exposure Limits :

<u>Ingredient Name</u>	<u>Occupational Exposure Limits</u>
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No hazardous ingredient.	
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Personal protective equipment

Skin and body : Lab coat.

Eyes : Safety glasses.

9. Physical and chemical properties

Physical state : Solid.

Color : Off-white.

Odor : Odourless.

Melting Point : 95°C (203°F) based on data for: Magnesium Nitrate.

Density : The only known value is 1.464 g/cm³ (Magnesium Nitrate).

Solubility : Easily soluble in cold water, hot water, methanol.
Partially soluble in diethyl ether, n-octanol.
Very slightly soluble in acetone.

Octanol/water partition coefficient : The product is more soluble in water.

pH : Neutral.

Flash point : Not available.

Flammability (solid, gas) : Highly flammable in presence of organic materials.

Explosive properties : Risks of explosion of the product in presence of mechanical impact: Not available.
Risks of explosion of the product in presence of static discharge: Not available.
Highly explosive in presence of organic materials.

10. Stability and reactivity

Stability : The product is stable.

Hazardous Decomposition Products : These products are nitrogen oxides (NO, NO₂...). Some metallic oxides.

11. Toxicological information

Local effects

Skin irritation : n/a

Acute toxicity : LD50: Not available.
LC50: Not available.

Chronic toxicity : Repeated or prolonged exposure is not known to aggravate medical condition.

12. Ecological information

Ecotoxicity : Not available.

13. Disposal considerations

Methods of disposal; Waste of residues; Contaminated packaging : Waste must be disposed of in accordance with federal, state and local environmental control regulations.

14. Transport information

International transport regulations

UN number : UN1474

Land - Road/Railway

Proper shipping name : Oxidizing substances, n.o.s. (Magnesium Nitrate)

ADR/RID Class : 5.1

Packing Group : III

ADR/RID label :



Sea

Proper shipping name : Oxidizing substances, n.o.s. (Magnesium Nitrate)

IMDG Class : 5.1

Packing Group : III

IMDG label :



Air

Proper shipping name : Oxidizing substances, n.o.s. (Magnesium Nitrate)

UN/ID Number : UN1474

IATA-DGR Class : 5.1

IATA label :



Inland waterways

Proper shipping name : Oxidizing substances, n.o.s. (Magnesium Nitrate)

ADNR Classification : 5.1

UN/NA (Europe) ADNR : UN1474

Packing Group : III

ADNR label :



15. Regulatory information

EU Regulations

Risk Phrases : This product is not classified according to the EU regulations.

16. Other information

HISTORY

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Prepared by :

Notice to Reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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