



SAFETY DATA SHEET

Calcium Nitrate

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

Identification of the substance or preparation

Product name : Calcium Nitrate

Use of the substance/preparation : Fertiliser.

Company/undertaking identification

Manufacturer / Supplier : Yara Benelux B.V.
Maassluisdijk 103
3133 KA Vlaardingen
The Netherlands
T: +31 10 44 53 188
F: +31 10 44 53 180

e-mail address of person responsible for this SDS : Yaraquest@Yara.com

Emergency telephone number : The National Poisons Information Centre (NVIC)
Advice to doctors
+31 30 274 88 88 (24h)

2. Hazards identification

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Substance/preparation : Preparation

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First-aid measures

- Inhalation : Avoid breathing dust. If inhaled, remove to fresh air.
- Ingestion : If large quantities of this material are swallowed, call a physician immediately. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.
- Skin contact : Avoid prolonged or repeated contact with skin. After handling, always wash hands thoroughly with soap and water. Get medical attention if irritation develops.
- Eye contact : In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if irritation occurs.
- Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training.

See section 11 for more detailed information on health effects and symptoms.

5. Fire-fighting measures

Extinguishing media : Use water only in flooding quantities to fight the fire. Do NOT use chemical extinguisher or foam or attempt to smother the fire with steam or sand.

Hazardous thermal decomposition products : These products are
nitrogen oxides
metal oxide/oxides

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental release measures

- Personal precautions** : Follow all fire-fighting procedures (section 5).
- Environmental precautions and clean-up methods** : Avoid contact of spilt material and runoff with soil and surface waterways.
- : Use a tool to scoop up solid material and place into an appropriate labelled waste container. Do not mix with sawdust or other combustible material. Avoid creating dusty conditions and prevent wind dispersal. Keep out of waterways. See section 13 for waste disposal information.

Note: see section 8 for personal protective equipment and section 13 for waste disposal.

7. Handling and storage

- Handling** : Avoid creating dusty conditions and prevent wind dispersal. Avoid all possible sources of ignition (spark or flame). Avoid contamination by any source including metals, dust and organic materials.
- Storage** : Store and use away from heat, sparks, open flame or any other ignition source. Avoid contact with combustible materials. Prevent moisture pick-up in handling and storage.
- Packaging materials recommended** : Use original container.

8. Exposure controls/personal protection

- Occupational exposure limits** : Total inhalable dust - 10 mg/m³
Respirable dust - 5 mg/m³
- Exposure controls**
- Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Eye protection** : Use dust goggles if high dust concentration is generated.
- Skin protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved.
- Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

9. Physical and chemical properties

General information

Appearance

Physical state

: Solid.

Colour

: White to yellowish.

Odour

: Odourless.

Important health, safety and environmental information

pH : 5 to 7 [Conc. (% w/w): 10%]

Boiling point : 310°C (590°F)

Melting/freezing point : 94 to 98°C (201,2 to 208,4°F)

Density (g/cm³) : 1 g/cm³

Solubility : Soluble in the following materials: cold water

10. Stability and reactivity

Stability	: Stable under recommended storage and handling conditions (see section 7).
Materials to avoid	: Reactive or incompatible with the following materials: combustible materials, acids and alkalis.
Hazardous decomposition products	: These products are nitrogen oxides metal oxide/oxides

11. Toxicological information

Potential acute health effects

May cause eye and skin irritation.

Adverse health effects are considered unlikely, when the product is used according to directions.

Product/ingredient name	Result	Species	Dose	References
Preparation	LD50 Oral	Rat	>2100 mg/kg	

Chronic effects	: No known significant effects or critical hazards.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation	: No specific data.
Ingestion	: No specific data.
Skin	: No specific data.
Eyes	: No specific data.

12. Ecological information

Environmental effects	: No known significant effects or critical hazards.
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Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure	References
Preparation		Acute LC50 >100 mg/L	Fish	96 hours	-

Biodegradability

Conclusion/Summary	: The product does not show any bioaccumulation phenomena.
Other adverse effects	: No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal	: Empty containers or liners may retain some product residues. Do not empty into drains; dispose of this material and its container in a safe way. Dispose of in accordance with all applicable local and national regulations
Hazardous waste	: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC..

14. Transport information

Not regulated.

Not classified as hazardous material according to UN Orange Book and international transport codes e.g. ADR (road), RID (rail), ADN (inland waterways) and IMDG (sea).

15. Regulatory information

EU regulations

Risk phrases : This product is not classified according to EU legislation.

Product use : Industrial applications.

Classification and labelling have been performed according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and the intended use.

16. Other information

References : European Chemical Bureau, Annex 1 EU Directive 67/548/EEC
National Institute for Occupational Safety and Health, U.S. Dept. of Health, Education, and Welfare, Reports and Memoranda
Registry of Toxic Effects of Chemical Substances
Atrion International Inc. 4777 Levy Street, St Laurent, Quebec HAR 2P9, Canada

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☑ Indicates information that has changed from previously issued version.

Notice to reader

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