



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : C 10929
Product Name : **CALCIUM NITRATE**

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

2. COMPOSITION / INFORMATION ON INGREDIENTS

Synonyms : Chloro calcium
CAS-No : 13477-34-4
Ec-Index No. :
Molar Mass : 236.15
EC-No. : 233-332-1
Molecular Formula : $\text{CaN}_2\text{O}_6 \cdot 4\text{H}_2\text{O}$

3. HAZARDS IDENTIFICATION

Contact with combustible material may cause fire. Irritating to eyes



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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 .

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.

The following may develop in event of fire : nitrous gases

6. ACCIDENTAL RELEASE MEASURES

Procedures for cleaning/absorption : Take up dry. Forward for disposal .

Clean up affected area.

7. HANDLING AND STORAGE

Handling : No further requirements .

Storage : Tightly closed . Dry 15⁰C to +25⁰C.



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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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	Colourless to white
odour	:	Odourless
PH value At 50 mg/l H ₂ O (20 ⁰ C):	:	Near 4-7
Melting temperature	:	42 ⁰ 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 ⁰ C)	:	1.82 g/cm ³
Solubility in water (0 ⁰ C)	:	2660 g/l
water (30 ⁰ C)	:	6600 g/l



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10. STABILITY AND REACTIVITY

Conditions to be avoided : No information available.

Substance to be avoided : Organic combustible substances, reducing agents, ammonium compounds.

Hazardous decomposition products : Nitrous gases

11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD₅₀ (oral, rat): 3900 mg/Kg

Further toxicological information

After skin contact: local irritation symptoms

After swallowing: nausea, vomiting

After eye contact: Irritations

Systemic effects : The following applies to nitrites/ nitrates in general:

Methaemoglobinaemia after the uptake of large quantities

12. ECOLOGICAL INFORMATION

Ecotoxic effects : The following applies to nitrates in general; may contribute to the eutrophication of water supplies.

Hazard for drinking water. Fish LC₅₀ > 500 mg/l

Further ecologic date: Do not allow to enter water, waste water, or soil.



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13. DISPOSAL METHOD

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 .

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 .

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 : CALCIUM NITRATE

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class:5.1 UN –No.:1454 Packaging group: III
Ems :5.1-06 MFAG: 235

Correct technical name: CALCIUM NITRATE

Air transport

ICAO-TI and IATA-DGR :ICAO/IATA class:5.1 UN/ID-No.: 1454 Packaging group: III
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15. REGULATORY INFORMATION :

Labelling according to EC Directives

Symbol : O Oxidising

Xi Irritant

R- Phrases : 8-36 Contact with combustible material may cause fire.
Irritating to eyes.

S-phrases :

Water pollution class : 1 (slightly polluting substance)

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.
