



SAFETY DATA SHEET

1. IDENTIFICATION OF THE PREPARATION AND OF THE COMPANY

Catalogue No. : A 11229
Product Name : Aluminium 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

CAS-No : 7784-27-2
Molecular formula : $\text{AlN}_3 \text{O}_9 \cdot 9\text{H}_2\text{O}$
EC-No. : 236-751-8
Molar mass : 375.13

3. HAZARDS IDENTIFICATION

Contact with combustible materials may cause fire. Irritating to eyes and skin.

4. FIRST AID MEASURES

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.



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After swallowing : summon doctor . Make victim drink plenty of water. Induce vomiting.

After inhalation: fresh air.

5. FIRE – FIGHTING MEASURES

Suitable extinguishing media

In adaptation to materials stored in the immediate neighbourhood.

Special risks : Non combustible. Ambient fire may liberate hazardous vapours. The following may develop in the event of fire: nitrogen oxides.

Special protective equipment for fire fighting: Do not stay in dangerous zone without self-contained breathing apparatus.

Other information: Prevent fire fighting water from entering surface water or ground water.

6.ACCIDENTAL RELEASE MEASURES

Procedures for cleaning / absorption :

take up dry. Forward for disposal. Cleanup affected area.

Person related precautionary measures: Avoid generation of dusts. Do not inhale dusts. Ensure of fresh air in enclosed rooms.

Environmental protection measures: Do not allow to enter sewage system.

7. HANDLING AND STORAGE

Handling : Keep away from sources of ignition

Storage : Tightly closed . Away from combustible materials and sources.



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8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection : required when dusts are generated .

Eye protection : required

Hand protection : not required

Protective clothing should be selected for the working place depending on concentration and quantity of the hazardous substance handled. The resistance

of the protective clothing to chemicals should be ascertained with the respective supplier

Industrial hygiene : Change contaminated clothing . Wash hands after working with substance .

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : solid
Colour : colourless
Odour : of nitric acid
Melting temperature : ~ 73 °C
Boiling temperature : ~ 135 °C
pHvalue
at 50g/l H₂O(25⁰C) : ~ 2-4
Ignition temperature : Not available
Flash point : not applicable
Explosion limits lower : Not available
Upper : Not available
Relative vapour density : Not available
Density (20⁰C) : Not available
Bulk density : ~880 Kg/m³



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Solubility in
water(20⁰C) : 419 g/l
ethanol (20⁰C) : freely soluble

10. STABILITY AND REACTIVITY

Conditions to be avoided : no information available.
Substance to be avoided. Reducing agents
Hazardous decomposition products : no information available.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: LD₅₀ (oral, rat) : 3671 mg/Kg

Further toxicological information

After inhalation of dusts: Possible effects: absorption.

After swallowing: nausea and vomiting; absorption . other notes:

After absorption of toxic quantities: CNS disorders,
methaemoglobinaemia.

Further data: Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing
with chemicals.

12. ECOLOGICAL INFORMATION

Ecotoxic effects: Hazard for drinking water supplies. Toxic for aquatic

organisms. Fish toxicity: fish EC₀: 0.5 mg/l (aluminium); Algeal
toxicity: Sc quadricauda EC₀: 1.5 mg/l (aluminium)

Further ecologic data: No ecological problem are to be expected
when the product is handled and used with due care and attention.



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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.

14. TRANSPORT INFORMATION

Transport over land

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

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

Name of material : ALUMINIUM NITRATE

River transport AND/ADNR: Not examined

Sea transport IMDG : IMDG class:5.1 UN -No.:1438

Packaging group: III

Ems :5.1-06 MFAG: 235

Correct technical name: ALUMINIUM NITRATE



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Air transport

ICAO-TI and IATA-DGR: ICAO/IATA class: 5.1 UN/ID-No.:1438

Packaging group: III

Correct technical name: ALUMINIUM NITRATE

15. REGULATORY INFORMATION

Labelling according to EC Directives

Symbol : o Oxidising
Xi Irritant

R- Phrases : 8-36/38 Contact with combustible material may cause fire
Irritating to eyes and skin.

S-phrases :

Water pollution class : 1 (slightly polluting)

16. OTHER INFORMATION

Reason for alteration

General update.

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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