



# SAFETY DATA SHEET

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

Catalogue No. : A 11929  
Product Name : AMMONIUM CHLORIDE

### 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 : Sal ammoniac  
CAS-No : 12125-02-9  
Ec-Index No. : ----  
Molar Mass : 53.49  
EC-No. : 235-186-4  
Molecular Formula : H<sub>4</sub> CIN

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3. HAZARDS INDEX : Harmful if swallowed. Irritating to eyes.

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## 4. FIRST AID MEASURES

After inhalation : fresh air. Consult doctor if feeling unwell.

After skin contact : wash off with plenty of water. Remove contaminated clothing.

After eye contact : rinse out with plenty of water. If pain persists, summon eye specialist.



## SAFETY DATA SHEET

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**Catalogue No.** : A 11929

**Product Name** : AMMONIUM CHLORIDE

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After swallowing: make victim drink plenty of water, induce vomiting, summon doctor if feeling unwell.

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### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media :

In adaption to materials stored in the immediate neighbourhood.

Special risks : Non - combustible. Ambient fire may liberate hazardous vapours.

The following may develop in event of fire : Nitrogen oxides, hydrochloric acid.

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/ groundwater. Contain escaping vapours with water.

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### 6. ACCIDENTAL RELEASE MEASURES

Person-related precautionary measures: Avoid substance contact. Avoid generation of dusts;do not inhale dusts.

Environmental-protection measures : Do not allow to enter sewerage system. Procedures for cleaning/absorption : Take up dry. Forward for disposal. Clean up affected area.

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## SAFETY DATA SHEET

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**Catalogue No.** : A 11929

**Product Name** : AMMONIUM CHLORIDE

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### 7. HANDLING AND STORAGE

Handling : No further requirements.

Storage : Tightly closed. Dry.

Storage temperature : No restrictions.

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### 8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Respiratory protection : Required when dusts are generated.

Eye protection : Required

Hand protection : Required

Protective clothing should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of the protective clothing to chemicals should be ascertained with the respective supplier.

Industrial hygiene : Change contaminated clothing. Application of skin – protective barrier cream recommended. Wash hands after working with substance.

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### 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Solid
Colour	: White
Odour	: Odourless
pH value at 50 gm/lt. H <sub>2</sub> O (20° C)	: 4.5 - 5.5
Melting temperature	: Not available
Boiling temperature	: 520° C
Sublimation Point	: 335° C



## SAFETY DATA SHEET

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**Catalogue No.** : A 11929

**Product Name** : AMMONIUM CHLORIDE

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Ignition temperature	: Not available
Flash Point	: Not applicable
Explosion limit lower	: Not available
upper	: Not available
Vapour pressure (30° C)	: 1.3 hPa
(250° C)	: 67 hPa
Relative vapour density	: Not available
Density (20° C)	: 1.52 gm/cm <sup>3</sup>
Bulk Density	: ~500 kg/m <sup>3</sup>
Solubility in Water (20° C)	: 374 gm/lt.
Ethanol (20° C)	: 20 gm/lt.
Acetone	: Insoluble
Ether	: Insoluble
Thermal decomposition	: >350° C

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### 10. STABILITY AND REACTIVITY

Conditions to be avoided : Strong heating

Substances to be avoided : Alkali hydroxides, chlorine, chlorates, nitrates, nitrites, halogen-halogen compounds.

Hazardous decomposition products :

In the event of fire : Ammonia, hydrochloric acid.

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### 11. TOXICOLOGICAL INFORMATION ACUTE TOXICITY

LD (oral, rat) : 1650 mg/kg<sup>50</sup>

Further toxicological information :

Eye irritation test (rabbit) : Severe irritations

**Catalogue No.** : A 11929

**Product Name** : AMMONIUM CHLORIDE

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After inhalation : Irritation of the mucous membranes, coughing, and dyspnoea.

After skin contact : Slight irritation symptoms.

After eye contact : Irritant effect.

After swallowing : mucosal irritations.

After swallowing of large amounts : Headache, nausea, unconsciousness

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**

Ecotoxic effects : The following applies to ammonium ions in general :  
biological effects : fish : toxic as from 0.3 mg/l; nourishment for fish :  
toxic as from 0.3 mg/l.

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

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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 & 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 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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## SAFETY DATA SHEET

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**Catalogue No.** : A 11929

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**14. TRANSPORT INFORMATION** : Not subject to transport regulations.

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### **15. REGULATORY INFORMATION**

Labelling according to EC Directives

Symbol : Xn Harmful

R-phrases : 22-36 Harmful if swallowed. Irritating to eyes.

S-phrases : 22 Do not breathe dust.

Water pollution class : 1 (slightly polluting substance)

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### **16. OTHER INFORMATION**

Reason for alteration

Change in the chapter on toxicology.

Change in the chapter on ecology.

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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