



# SAFETY DATA SHEET

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

Catalogue No. : A 15329  
Product Name : AMMONIUM PERSULPHATE

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 Tele fax No. : 0484 2802483

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms : Ammonium Peroxidisulphate,  
Peroxidisulphuric Acid Diammonium salt  
CAS-No : 7727-54-0  
EC No. : 231-786-5  
Molar Mass : 228.20  
EC Index No. : 016-060-00-6  
Molecular Formula :  $H_8N_2O_8S_2$

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## 3. HAZARDS INDEX

Contact with combustible material may cause fire. Harmful if swallowed. Irritating to eyes, respiratory system & skin. May cause sensitization by inhalation and skin contact.

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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 the eyelid held wide open. Summon eye specialist if necessary.



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

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### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : CO<sub>2</sub> , powder

Extinguishing media not to be used : Water

Special risks : Fire-promoting. Keep away from combustible materials.

Development of hazardous combustion gases or vapours possible in the event of fire. The following may develop in event of fire : Ammonia, sulphur oxides, nitrogen oxides

Special protective equipment for fire fighting : Do not stay in dangerous

zone without suitable chemical protection clothing and self - contained breathing apparatus.

Other information : Non-combustible. Prevent fire- fighting water from entering surface water or groundwater.

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### 6. ACCIDENTAL RELEASE MEASURES

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

Ensure supply of fresh air in enclosed rooms.

Procedure for cleaning/absorption : Take up dry. Forward for disposal.  
Clean up affected area.

Environmental-protection measures : Do not allow to enter sewerage system.

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## 7. HANDLING AND STORAGE

Handling - Contents may be under pressure. Avoid contact with organic substances.

Storage - Tightly closed. Dry. Keep away from sources of ignition and heat. At +15° C to +25° C.

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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 & face after working with substance.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Solid
Colour	:	White
Odour	:	Odourless
pH value at 100 gm/lit.H <sub>2</sub> O (20° C)	:	3.2
Melting temperature	:	120° C (Decomposition)
Boiling temperature	:	Not available
Ignition temperature	:	Not available
Flash Point	:	Not available
Explosion limit lower	:	Not available
upper	:	Not available
Relative vapour density	:	Not available



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Density (20 ° C) : 1.98 gm/cm<sup>3</sup>  
Bulk Density : ~900 kg/m<sup>3</sup>  
Solubility in Water (20 ° C) : 582 gm/lt.  
Thermal Decomposition : >120 ° C

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## 10. STABILITY AND REACTIVITY

Conditions to be avoided : Heating

Substances to be avoided : Strong alkalis, bases, combustible substances, iron, zinc, copper, hydrogen peroxide, peroxi compounds, silver compounds, metal in powder form.

Hazardous decomposition products : in the event of fire : sulphur oxides, nitrous gases, ammonia, ozone.

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## 11. TOXICOLOGICAL INFORMATION

Acute toxicity : LD<sub>50</sub> (oral, rat) : 689 mg/kg

Further toxicological information :

After inhalation: dyspnoea. Irritations of: respiratory tract, mucous membranes, lungs. Risk of sensitization.

After skin contact : Irritations. Risk of sensitization.

After eye contact : Irritation.

After absorption : Irritations of : gastrointestinal tract.

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

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## 12. ECOLOGICAL INFORMATION

Ecotoxic effects : Product reacts with water.

Decomposition products : Ammonium Compounds, oxygen

Biological effects : Toxic for aquatic organisms.

Daphnia toxicity : Daphnia EC<sub>50</sub> : 185 mg/lt/24 hr.



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Algal toxicity: Scenedesmus subspicatus EC<sub>50</sub> : 540 mg/lit.

Further ecologic data :

The following applies to ammonium ions in general; biological effects:

fish : toxic as from 0.3 mg/lit; nourishment for fish : toxic as from 0.3 mg/lit.

The following applies to sulphate in general: biological effects : fish : toxic as

from 7 gm/lit; bacteria : toxic as from 2.5 gm/lit.

Do not allow to enter waters, waste water, or soil!

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## 13. DISPOSAL METHOD

There are no uniform EC Regulations for the disposal of chemicals/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/approved waste disposal companies which will advise you on how to dispose of special waste.

Disposal in compliance with official regulation. 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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## 14. TRANSPORT INFORMATION

Transport over land

ADR/RID & GGVS/GGVE : GGVS/GGVE class : 5.1 Number and letter : 18C

ADR/RID class : 5.1 Number and letter : 18c

Name of material : AMMONIUM PERSULPHATE

Sea Transport IMDG : IMDG class : 5.1 UN No. : 1444 Packing group : III

Ems : 5.1 - 06 MFAG : 725

Correct Technical Name : AMMONIUM PERSULPHATE

Air Transport ICAO-TI and IATA-DGR : ICAO/IATA class : 5.1 UN No. : 1444

Packaging group : III Correct Technical Name : AMMONIUM PERSULPHATE

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## 15. REGULATORY INFORMATION

Labeling according to EC Directives

Symbol : O Oxidizing

R-phrases : 8-22-36/37/38-42/43 Contact with combustible material may cause fire. Harmful if swallowed Irritating to eyes, respiratory, system and skin. May cause sensitization by inhalation and skin contact.

S-phrases : 22-24-26-37 Do not breathe dust. Avoid contact with skin. In case of contact with eyes, rinse immediately with plenty of water & seek medical advice. Wear suitable gloves.

Water pollution class : 1 (slightly polluting substance)

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## 16. Other Information

Reason for alteration :

Change in labeling.

Change/addition in the chapter 8

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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