

**MATERIAL SAFETY DATA SHEET****1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Substance/Synonym : Ammonium Sulphate Solution

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**2 COMPOSITION/INFORMATION ON INGREDIENTS**

NAME	AMMONIUM SULPHATE
CAS No.:	7783-20-2
CONTENT	30-40 %
EEC (EINECS) No.	231-984-1
GROSS FORMULA	H8-N2-O4-S

**3 HAZARDS IDENTIFICATION**

Not regarded as hazardous under current legislation.

**4 FIRST AID MEASURES**

**INHALATION:** Move the exposed person to fresh air at once. Perform artificial respiration if breathing has stopped. Keep the affected person warm and at rest. Get prompt medical attention.

**INGESTION** Water may be given to drink or used to wash out the mouth if, and only if, the patient is fully conscious and not convulsing. Do not give an emetic unless directed by competent medical practitioner. Rest and reassure the patient and obtain medical advice immediately.

**SKIN:** Remove affected person from source of contamination. Promptly wash contaminated skin with soap or mild detergent and water. Promptly remove clothing if soaked through and wash as above. Get medical attention promptly if symptoms occur after washing.

**EYES:** Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

**5 FIRE-FIGHTING MEASURES**

**EXTINGUISHING MEDIA**

Use extinguishing media appropriate for surrounding fire.

**HAZARDOUS COMBUSTION PRODUCTS:**

Toxic gases/vapors/fumes of: Ammonia or amines. Oxides of: Nitrogen. Sulphur.

**PROTECTIVE MEASURES IN FIRE**

Wear self contained breathing apparatus and full protective clothing.

**6 ACCIDENTAL RELEASE MEASURES**

**PERSONAL PRECAUTION IN SPILL**

Wear appropriate PPE, see section 8.

**PRECAUTIONS TO PROTECT ENVIRONMENT:**

Do not allow undiluted material to enter drains or water courses.

**SPILL CLEANUP METHODS:**

Absorb in vermiculite, dry sand or earth and place into containers.

**7 HANDLING AND STORAGE**

**USAGE PRECAUTIONS:**

Avoid spilling, skin and eye contact.

**STORAGE PRECAUTIONS:**

Keep in cool, dry, ventilated storage and closed containers.

**STORAGE CRITERIA:**

Chemical storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**PROTECTIVE EQUIPMENT:**

**VENTILATION:**

No specific ventilation requirements noted, but forced ventilation may still be required if air contamination exceeds acceptable level.

**PROTECTIVE GLOVES:**

No specific hand protection noted, but gloves may still be advisable. For prolonged or repeated skin contact use suitable protective gloves.

**EYE PROTECTION:**

Wear approved chemical safety goggles where eye exposure is reasonably probable.

**HYGIENIC WORK PRACTICES:**

Do not eat, drink or smoke whilst handling the product. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes wet or contaminated. Contaminated clothing to be placed in closed container until disposal or decontamination. Warn cleaning personnel of chemical's hazardous properties.

**9 PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE:	Liquid.
COLOUR:	Straw/Pale Brown.
ODOUR/TASTE:	Mild (or faint). Ammonia.
MOL. WEIGHT:	132.1
BOILING POINT (°C, interval):	~ 102
MELT./FREEZ. POINT (°C, interval):	~ 10
PH VALUE	5.5 - 6.5
DENSITY/SPECIFIC GRAVITY :	1.23 g/cm <sup>3</sup>
SOLUBILITY DESCRIPTION:	Complete in water.

**10 STABILITY AND REACTIVITY**

STABILITY:	No particular stability concerns.
MATERIALS TO AVOID:	Strong oxidizing agents. Corrosive to mild steel, copper and brass.
HAZARDOUS DECOMP. PRODUCTS:	Toxic gases/vapours/fumes of: Ammonia or amines. Oxides of: Nitrogen. Sulphur.

**11 TOXICOLOGICAL INFORMATION**

TOXIC DOSE - LD 50:	For solid: 3000 mg/kg (oral rat)
HEALTH WARNINGS:	This chemical may cause skin/eye irritation. Repeated exposure may cause chronic eye irritation. May cause chemical eye burns.
ROUTE OF ENTRY:	Ingestion. Skin and/or eye contact.
TARGET ORGANS:	Central nervous system. Eyes. Gastro-intestinal tract. Skin.
MEDICAL SYMPTOMS:	Extreme irritation of eyes and mucous membranes, including burning and tearing. Skin irritation. Gastrointestinal symptoms, including upset stomach.

**12 ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION:	Not known, but do not discharge into watercourses.
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**13 DISPOSAL CONSIDERATIONS**

DISPOSAL METHODS:	Dispose of in accordance with Local Authority requirements.
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**14 TRANSPORT INFORMATION**

UN No. ROAD:	0
ADR CLASS:	Classified as non hazardous for transportation purposes.

**15 REGULATORY INFORMATION**

LABEL FOR SUPPLY:	NC Not classified
RISK PHRASES:	Not classified.
SAFETY PHRASES:	Not classified.
UK REGULATORY REFERENCES:	Health and Safety at Work Act 1974. Classification, Packaging and Labelling Regulations 1984. The Control of Substances Hazardous to Health Regulations 1988. Chemicals (Hazard Information & Packaging) Regulations 1993.
STATUTORY INSTRUMENTS:	Chemicals (Hazard Information and Packaging) Regulations.
APPROVED CODE OF PRACTICE:	Classification and Labelling of Substances and Preparations Dangerous for Supply.
GUIDANCE NOTES:	Occupational Exposure Limits EH40. CHIP for everyone HSG(108). Introduction to Local Exhaust Ventilation HS(G)37.

**16 OTHER INFORMATION**

All information contained in this Material Safety Data Sheet is accurate to the best of our knowledge and belief as at the date of issue. However, the Company makes no warranty or representation, express or implied, as to the accuracy or completeness of such information.

The provision of this Material Safety Data Sheet is not intended to obviate the need for all users to satisfy themselves that the product described is suitable for their individual purposes and that the safety precautions and environmental advice are adequate for their individual purposes and situation. Further, it is the user's obligation to use this product safely and to comply with all applicable laws and regulations concerning the use of this product.