



SAFETY DATA SHEET

AMMONIUM CHLORIDE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY:

PRODUCT NAME:	AMMONIUM CHLORIDE
PART No.:	RM014
SUPPLIER:	J M Loveridge plc Southbrook Road, Southampton Hampshire SO15 1BH Tel: 023 8022 2008 Fax: 023 8022 2117

2. COMPOSITION/INFORMATION ON INGREDIENTS:

EU INDEX No.:	017-014-00-8
EEC (EINECS) No.	235-186-4
CAS No.:	12125-02-9

3. HAZARDS IDENTIFICATION:

Harmful if swallowed. Irritating to eyes.

Additional hazard associated with fumes arising above sublimation temperature when heated.

4. FIRST AID MEASURES:

GENERAL:	IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION
INHALATION:	Move affected person to fresh air. If recovery not rapid, seek medical attention. If breathing stops, provide artificial respiration. Keep affected person warm and at rest. Same treatment also applies for inhaled thermal decomposition products.
INGESTION:	Only when conscious, rinse mouth with plenty of water and give plenty of water to drink - (approx 500ml). DO NOT INDUCE VOMITING. In case of spontaneous vomiting, be sure that vomit can freely drain because of danger of suffocation. Keep patient at rest and obtain medical attention.
SKIN:	Remove contaminated clothing. Wash affected area with plenty of soap and water. If irritation persists, seek medical attention.
EYES:	Rinse immediately with plenty of water for at least 5 minutes while lifting the eye lids. Seek medical attention. Continue to rinse.

5. FIRE FIGHTING MEASURES:

EXTINGUISHING MEDIA:	Water spray.
SPECIAL FIRE FIGHTING PROCEDURES:	Take measures to retain water used for extinguishing. Do not release contaminated water into drains, soil and surface water. Dispose of contaminated water and soil according to local regulations. If risk of water pollution occurs, notify appropriate authorities. Use gentle application of water spray to keep exposed containers cool or to dissipate vapour.
HAZARDOUS COMBUSTION PRODUCTS:	Toxic or corrosive vapours may be released in fire situation. - (ammonium chloride may dissociate into ammonia and hydrogen chloride, which are respiratory and eye irritants)
PROTECTIVE MEASURES IN FIRE:	Fire fighters should wear self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL:	Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing.
PRECAUTIONS TO PROTECT ENVIRONMENT:	Prevent material from entering drains or water courses. Advise the Environment Agency or relevant local authority if contamination of soil or water systems occurs.
SPILL CLEANUP METHODS:	Take-up spillage with absorbent, inert material and place in a suitable and closable labelled container for recovery or disposal. Wash the area clean with water and detergent, observing environmental requirements.

7. HANDLING AND STORAGE:

USAGE PRECAUTIONS:	Avoid contact with skin or eyes. Avoid breathing dust. Ensure good ventilation and local exhaust extraction in work place.
STORAGE PRECAUTIONS:	Store in a cool, dry, well ventilated place, in securely closed original container.
STORAGE CRITERIA:	Chemical storage.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION:

INGREDIENT NAME:	CAS No.:	STD	LT EXP 8 Hrs	ST EXP 15 Min
AMMONIUM CHLORIDE	12125-02-9	OES	10 mg/m3	20 mg/m3

INGREDIENT COMMENTS:	Refer to the current edition of HSE Guidance Note EH 40/200* for occupational exposure limits; - Thermal decomposition products, ammonia and hydrogen chloride may need consideration.
VENTILATION:	Work in a fume cupboard or use local exhaust ventilation. Respiratory protection required in insufficiently ventilated working areas.
RESPIRATORS:	If unable to control dust emissions below OES limits, an approved dust protection to P2 level of protection is recommended.
PROTECTIVE GLOVES:	Use impervious gloves made of butyl rubber or polyethylene.
EYE PROTECTION:	Use approved safety goggles or face shield.

OTHER PROTECTION:	Wear suitable personal protective equipment appropriate to the task.
HYGIENIC WORK PRACTICES:	SKIN PROTECTION - apply barrier cream to hands and exposed skin. Regularly vacuum dust to minimise the potential of air-borne exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE:	White crystalline powder. Hygroscopic.	
ODOUR/TASTE:	Ammoniacal odour.	
MELT/FREEZ. POINT (°C, interval):	sublimes @ 340°C	
DENSITY/SPECIFIC GRAVITY (g/ml):	1.53	Temperature (°C):
SOLUBILITY DESCRIPTION:	Slightly soluble in: Ethanol. Aqueous solutions are acidic.	
SOLUBILITY VALUE (g/100g H2O 20°C):	37	

10. STABILITY AND REACTIVITY:

STABILITY:	Stable under normal conditions of use.
MATERIALS TO AVOID:	May react violently with: nitrites, nitrates, chlorates, oxidising agents and silver salts. Can react with acids releasing hydrogen chloride.
HAZARDOUS DECOMP. PRODUCTS:	Thermal or chemical decomposition may release ammonia and hydrogen chloride.

11. TOXICOLOGICAL INFORMATION:

Toxicological data	Acute toxicity. LD50. Oral. Rat. 1410 mg/kg
INHALATION:	Irritating to mucous membranes. Irritating to respiratory system.
INGESTION:	Harmful if swallowed. May cause nausea, vomiting and acidosis.
SKIN:	Repeated or prolonged contact may cause dermatitis.
EYES:	Irritating to eyes.

12. ECOLOGICAL INFORMATION:

LC 50, 96 HRS, FISH mg/l:	209 mg/l (Cyprinus carpio)
EC 50, 48 HRS, DAPHNIA, mg/l:	>100 mg/l
ECOLOGICAL INFORMATION:	Harmful to aquatic organisms.
MOBILITY:	Soluble in water. Predicted to have high mobility in soil.
BIO ACCUMULATION:	Low bioaccumulation potential.
DEGRADABILITY:	Readily biodegradable.

13. DISPOSAL CONSIDERATIONS:

DISPOSAL METHODS: This material and/or its container must be disposed of as hazardous waste according to Special Waste Regulations 1996 or according to local regulations, in compliance with Duty of Care Regulations and Special Waste Regulations.

WASTE CLASS: WASTE CODE: 0705** HAZARDOUS PROPERTY: H5, H14

14. TRANSPORT INFORMATION:

GENERAL: Not classified as hazardous for transport.

15. REGULATORY INFORMATION:

LABEL FOR SUPPLY:

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

SAFETY PHRASES: S-2 Keep out of reach of children.
S-22 Do not breathe dust.

UK REGULATORY REFERENCES: Chemicals (Hazard Information & Packaging) Regulations 1993. Classification, Packaging and Labelling Regulations 1984.

16. OTHER INFORMATION:

INFORMATION SOURCES: This product has been classified in accordance with CHIP3 regulations.

REVISION COMMENTS: Edition 01; Revised item(s):

ISSUED BY: MK

SDS No.: 023

DATE: 12/07/02

DISCLAIMER: The foregoing data has been compiled for safety information only and does not form part of any selling specification. Information contained in this Data Sheet is to the best of JMLs knowledge correct at the time of publication. Customers should always satisfy themselves, that the product which they have selected is entirely suitable for their purpose under their conditions of use and in compliance with current regulations. For any further information, please contact the supplier.
