

SAFETY DATA SHEET
AMMONIA SOLUTION AR 0.89 S.G.

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

PRODUCT NAME AMMONIA SOLUTION AR 0.89 S.G.
 PRODUCT NO. 1197
 APPLICATION General chemical reagent
 SUPPLIER Reagent Chemical Services
 18 Aston Fields Road
 Whitehouse Industrial Estate
 Runcorn
 Cheshire WA7 3DL
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2 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification
AMMONIA ...%	215-647-6	1336-21-6	30-60%	C;R34 N;R50

The Full Text for all R-Phrases are Displayed in Section 16

EC (EINECS) NO. 215-647-6
 CAS-NO. 1336-21-6

3 HAZARDS IDENTIFICATION

Causes burns. Irritating to respiratory system. Very toxic to aquatic organisms.

CLASSIFICATION C;R34. Xi;R37. N;R50.

4 FIRST-AID MEASURES

INHALATION

Remove victim immediately from source of exposure. Provide rest, warmth and fresh air. Get medical attention if any discomfort continues.

INGESTION

Do not induce vomiting. Immediately rinse mouth and drink plenty of water. Get medical attention immediately!

SKIN CONTACT

Immediately remove contaminated clothing and wash before re-use. Rinse the skin immediately with lots of water. Get medical attention immediately.

EYE CONTACT

May cause permanent damage if eye is not immediately irrigated. Promptly wash eyes with plenty of water or eye wash solution while lifting the eyelids. If possible remove any contact lenses and continue to wash. Get medical attention.

5 FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

The product is non-combustible. Water spray.

UNUSUAL FIRE & EXPLOSION HAZARDS

Vapours may ignite.

SPECIFIC HAZARDS

In case of fire, toxic and corrosive gases may be formed.

PROTECTIVE MEASURES IN FIRE

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6 ACCIDENTAL RELEASE MEASURES

AMMONIA SOLUTION AR 0.89 S.G.**PERSONAL PRECAUTIONS**

Wear protective clothing as described in Section 8 of this safety data sheet.

SPILL CLEAN UP METHODS

Absorb in vermiculite, dry sand or earth and place into containers. Wash contaminated area with water.

7 HANDLING AND STORAGE**USAGE PRECAUTIONS**

Avoid spilling, skin and eye contact.

STORAGE PRECAUTIONS

Store in tightly closed original container in a dry and cool place.

STORAGE CLASS

Corrosive storage.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Name	Std	LT - ppm	LT - mg/m3	ST - ppm	ST - mg/m3
AMMONIA ...%	OES	25 ppm	18 mg/m3	35 ppm	25 mg/m3

ENGINEERING MEASURES

Provide adequate ventilation, including appropriate local extraction, to avoid occupational exposure.

RESPIRATORY EQUIPMENT

In case of inadequate ventilation use suitable respirator.

HAND PROTECTION

Use full-length gloves. Rubber or plastic

EYE PROTECTION

Wear goggles/face shield.

OTHER PROTECTION

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower.

HYGIENE MEASURES

Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes wet or contaminated. When using do not eat, drink or smoke.

9 PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Liquid		
COLOUR	Colourless		
ODOUR	Pungent		
RELATIVE DENSITY	0.88-0.91	VAPOUR DENSITY (air=1)	0.6
pH-VALUE, CONC. SOLUTION	14	FLAMMABILITY LIMIT - LOWER(%)	15.4 (Ammonia)
FLAMMABILITY LIMIT - UPPER(%)	33.6 (Ammonia)		

10 STABILITY AND REACTIVITY**STABILITY**

Stable under normal temperature conditions.

MATERIALS TO AVOID

Bases, alkalies (inorganic). Bases, alkalies (organic). Strong acids. Strong oxidising substances. Iodine.

11 TOXICOLOGICAL INFORMATION

TOXIC DOSE 1 - LD 50 350 mg/kg (oral rat)

INHALATION

Severely irritating.

INGESTION

May cause severe internal injury.

SKIN CONTACT

Strongly irritating. Prolonged contact may cause burns.

EYE CONTACT

Strongly corrosive. Causes severe burns and serious eye damage. Immediate first aid is imperative.

AMMONIA SOLUTION AR 0.89 S.G.**12 ECOLOGICAL INFORMATION**

ECOTOXICITY

Very toxic to aquatic organisms.

EC 50, 48 Hrs, DAPHNIA, mg/l Daphnia magna 24

13 DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14 TRANSPORT INFORMATION

UK ROAD CLASS	8		
PROPER SHIPPING NAME	AMMONIA SOLUTION		
UN NO. ROAD	2672	UK ROAD PACK GR.	III
ADR CLASS NO.	8	ADR CLASS	Class 8: Corrosive substances.
ADR PACK GROUP	III	ADR LABEL NO.	8
HAZCHEM CODE	2R	CEFIC TEC(R) NO.	80GC5-II+III
RID CLASS NO.	8	RID PACK GROUP	III
UN NO. SEA	2672	IMDG CLASS	8
IMDG PACK GR.	III	EMS	F-A, S-B
MARINE POLLUTANT	No.	UN NO. AIR	2672
AIR CLASS	8	AIR PACK GR.	III

15 REGULATORY INFORMATION

LABELLING



Corrosive



Dangerous for the environment

CONTAINS AMMONIA 33%

RISK PHRASES

R34	Causes burns.
R37	Irritating to respiratory system.
R50	Very toxic to aquatic organisms.

SAFETY PHRASES

S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show label where possible).
S51	Use only in well-ventilated areas.
S24/25	Avoid contact with skin and eyes.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S57	Use appropriate containment to avoid environmental contamination.
S60	This material and its container must be disposed of as hazardous waste.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

STATUTORY INSTRUMENTS

Chemicals (Hazard Information and Packaging) Regulations. Control of Substances Hazardous to Health.

AMMONIA SOLUTION AR 0.89 S.G.

APPROVED CODE OF PRACTICE

Classification and Labelling of Substances and Preparations Dangerous for Supply. COSHH essentials: Easy steps to control chemicals.
Control of Substances Hazardous to Health Regulations.

GUIDANCE NOTES

Occupational Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37.

NATIONAL REGULATIONS

Control of Substances Hazardous to Health Regulations 2002 (as amended)

16 OTHER INFORMATION

REVISION COMMENTS

Change to section 2. Change to section 15 Change to section 12

REVISION DATE November 2005

REV. NO./REPL. SDS GENERATED March 2004

SDS NO. 11087

RISK PHRASES IN FULL

R34 Causes burns.

R37 Irritating to respiratory system.

R50 Very toxic to aquatic organisms.