

**SAFETY DATA SHEET**  
**AMMONIA SOLUTION LRG 0.89 S.G.**

**1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING**

PRODUCT NAME AMMONIA SOLUTION LRG 0.89 S.G.  
 PRODUCT NO. 1302  
 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 (200-300 ml). Get medical attention immediately!

**SKIN CONTACT**

Immediately remove contaminated clothing. Rinse the skin immediately with lots of water. Get medical attention immediately.

**EYE CONTACT**

May cause permanent damage if eye is not immediately irrigated. Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Get medical attention immediately. Continue to rinse.

**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**
**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.

**AMMONIA SOLUTION LRG 0.89 S.G.****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 ensure that the defined occupational exposure limit is not exceeded.

## 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 appropriate clothing to prevent any possibility of skin contact. Provide eyewash station.

## 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, alkalis (inorganic). Bases, alkalis (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.

**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.

**AMMONIA SOLUTION LRG 0.89 S.G.****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
ICAO 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 container 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.

## 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

**AMMONIA SOLUTION LRG 0.89 S.G.**

RISK PHRASES IN FULL

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