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# ReAgent

## AMMONIA 0.88 SG TECHNICAL MSDS

According to Regulation (EC) No 1907/2006

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

PRODUCT NAME AMMONIA 0.88 SG TECHNICAL  
CAS-No. 1336-21-6  
EC No. 215-647-6  
SUPPLIER Reagent Chemical Services  
18 Aston Fields Road  
Whitehouse Industrial Estate  
Runcorn  
Cheshire WA7 3DL  
T: 01928 716903  
F: 01928 716425  
E: [info@reagent.co.uk](mailto:info@reagent.co.uk)  
PRODUCT NO. 2596  
APPLICATION General chemical reagent  
EMERGENCY TELEPHONE Emergency Telephone : +44 (0) 1928 716903 Between 08.30 - 17.00

### 2 HAZARDS IDENTIFICATION

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

CLASSIFICATION (1999/45) C;R34. Xi;R37. N;R50.

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	EC No.	CAS-No.	Content	Classification (67/548)
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 No. 215-647-6

CAS-No. 1336-21-6

### 4 FIRST-AID MEASURES

#### GENERAL INFORMATION

CAUTION! First aid personnel must be aware of own risk during rescue! First aid personnel must protect themselves with all necessary personal protective equipment during the assistance of casualties. When breathing is difficult, properly trained personnel may assist the casualty by administering oxygen. If casualty needs to be resuscitated avoid mouth to mouth contact, use a mechanical device such as a bag and mask to provide artificial respiration. Place unconscious person on the side in the recovery position and ensure breathing can take place. Do not give victim anything to drink if they are unconscious. If medical attention is required take this information sheet with the casualty.

#### 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

Water spray.

**AMMONIA 0.88 SG TECHNICAL****UNUSUAL FIRE & EXPLOSION HAZARDS**

Vapours may ignite.

**SPECIFIC HAZARDS**

In case of fire, toxic and corrosive gases may be formed. Ammonia. Nitrous gases (NOx).

**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**

Small Spillages: Absorb with sand or other inert absorbent. Large Spillages: Dam and absorb spillages with sand, earth or other inert material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Wash spillage site well with water and detergent, be aware of the potential for surfaces to become slippery. Wash thoroughly after dealing with a spillage. If there is a risk of vapours causing a pressure build up, allow the containers to vent before sealing.

**7 HANDLING AND STORAGE****USAGE PRECAUTIONS**

Avoid inhalation of vapours/spray and contact with skin and eyes.

**STORAGE PRECAUTIONS**

Store in closed original container at temperatures below 20 C. Store away from direct sunlight and moisture

**STORAGE CLASS**

Corrosive storage.

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs		STEL - 15 min		Notes
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 workplace exposure limit (WEL) is not exceeded. If vapours or mists are generated, work in a fume cupboard.

**RESPIRATORY EQUIPMENT**

Wear suitable respiratory protection if vapours or mists are generated.

**HAND PROTECTION**

Use full length gloves. Rubber or plastic Be aware that the liquid may penetrate the gloves. Frequent change is advisable. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**EYE PROTECTION**

Wear approved safety goggles.

**OTHER PROTECTION**

Wear suitable protective clothing as protection against splashing or contamination. Provide eyewash station and safety shower. If there is a risk of splashing then wear a face shield. Wear plastic apron and full length gloves if handling large amounts.

**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		
SOLUBILITY	Miscible with water		
RELATIVE DENSITY	0.88-0.91	VAPOUR DENSITY (air=1)	0.6
VAPOUR PRESSURE	330 mm Hg 0	pH-VALUE, CONC. SOLUTION	14
FLAMMABILITY LIMIT - LOWER(%)	15.4 (Ammonia)	FLAMMABILITY LIMIT - UPPER(%)	33.6 (Ammonia)

**10 STABILITY AND REACTIVITY**

## AMMONIA 0.88 SG TECHNICAL

**STABILITY**

Stable under normal temperature conditions.

**MATERIALS TO AVOID**

Strong acids. Bases. Strong oxidising substances. Copper and zinc. Iodine.

### 11 TOXICOLOGICAL INFORMATION

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

**INHALATION**

Severe irritant effect, coughing, bronchitis, pulmonary oedema.

**INGESTION**

May cause severe internal injury. Gastric pains and bloody vomiting. Nausea. Irritation of the mouth, the oesophagus and the gastrointestinal tract. There is a risk of perforation of the oesophagus and stomach.

**SKIN CONTACT**

Severely irritating. May cause skin burns or dermatitis.

**EYE CONTACT**

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

### 12 ECOLOGICAL INFORMATION

**ECOTOXICITY**

Very toxic to aquatic organisms. Harmful effect due to pH shift Do not allow to enter drinking water, waste water or soil.

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

**BIOACCUMULATION**

Low bioaccumulation potential.

**ACUTE FISH TOXICITY**

Ammonium ions: toxic from 0.3mg/l

### 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

**AMMONIA 0.88 SG TECHNICAL**

## 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.

## 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

Workplace 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**

## GENERAL INFORMATION

Under REACH Material Safety Datasheets (MSDS) are referred to as Safety Datasheets (SDS).

## REVISION COMMENTS

Change to section 5

REVISION DATE 15/07/2009

REV. NO./REPL. SDS GENERATED 1

SDS NO. 11480

## SAFETY DATA SHEET STATUS

Approved.

## RISK PHRASES IN FULL

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