# Scientific Laboratory Supplies - Safety Data Sheet

CHE1136

(in accordance with regulation (EU) 2015/830 and regulation (EC) 1272/2008)

Revision: 1.2 Revision date: 16 April 2021 Date printed: 16 September 2024

Section 1. Identification

1.1 Product Identifier CHE1136

Product Name AMMONIA SOLUTION 35% w/w pure 1L.

CAS Number 1336-21-6

REACH Registration No A registration number is not available as the substance or its uses are exempt, the

annual tonnage does not require a registration or the registration is envisaged for a

later date.

Molecular Formula NH<sub>3</sub> =17.03

1.2 Relevent identified uses of the substance or mixure & uses advised against

Uses of Material Chemical for industrial and laboratory use. Not suitable for domestic use.

**1.3 Supplier** Scientific Laboratory Supplies

SCIENTIFIC LABORATORY SUPPLIES

Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

Email sales@scientific-labs.com

**1.4 Emergency Telephone** (08:00-17:00) 0115 9821111

(24hr) 112 (Have this document to hand)

## Section 2. Hazards Identification

### 2.1 Classification of the substance or mixture

### Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 1A H314: Causes severe skin burns and eye damage. Spec target organ tox - single, category 3 H335: May cause respiratory irritation.

Hazard to aquatic environment, category 1 H400: Very toxic to aquatic life.

#### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: CHE1136



Hazard Statements Causes severe skin burns and eye damage. Very toxic to aquatic life. May cause respiratory irritation.

Precautionary Statements Do not breathe fume/vapours. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair):

Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Avoid release to

the environment

## **Section 3. Composition**

### 3.1 Substances

Component	CAS No. EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Ammonia	1336-21-6 231-635-3		35%	Skin Corr. 1A,STOT SE 3 (I),Aquatic Acute 1	

### **Section 4. First Aid**

### 4.1 Description of first aid measures

Eyes Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. In

severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If

breathing stops or shows signs of failing, apply artificial resuscitation. If conscious place in a sitting position.

OBTAIN MÉDICAL ATTENTION URGENTLY.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. If unconscious place in the recovery position.

OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

aiders

### 4.2 Most important symptoms and effects, both acute & delayed.

No further relevant information available.

### 4.3 Indication of any immediate medical attention and special treatment needed.

No further relevant information available.

### **Section 5. Fire Fighting**

### 5.1 Extinguishing media

Extinguishing Media Water spray, dry powder, carbon dioxide or vaporising liquids.

Unsuitable Media Nothing specified.

### 5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

### 5.3 Advice for firefighters

Advice for firefighters Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear

protective clothing and breathing apparatus.

## Section 6. Accidental Release Measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Ensure no sources of ignition. Avoid breathing vapour. Use approved personal protective equipment. Evacuate

area immediately. Do not allow general use of area until it is safe to do so.

### 6.2 Environmental precautions

Environmental Keep material out of sewers, storm drains, surface waters and soil. Notify the Environmental Agency and local

Environmental Health Officer if major spillage occurs.

#### 6.3 Methods and material for containment and cleaning up

Major Spillage Contain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with

copious amounts of water.

Minor Spillage Contain and absorb on inert material. Neutralise with 5M hydrochloric acid. Transfer absorbent to container for

removal. Wash area down with copious amounts of water.

#### 6.4 Reference to other sections

See section 8.2 for information on protective equipment and section 13 for information on disposal.

### Section 7. Storage & Handling

#### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Do not breath vapours. Do not allow to contaminate clothing.

Ensure Local Exhaust Ventilation maintains vapour concentrations below the recommended limits.

### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

### 7.3 Specific end use(s)

See section 1.2.

### Section 8. Workplace Exposure & Personal Protection

#### 8.1 Control parameters

I	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term (8hr TWA)		Short Term 15min period)		
1	Ammonia	1336-21-6	35%	25.0 ppm	18.0 mg/m-3	35.0 ppm	25.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

maintained chemical cartridge respirator, or use self contained breathing apparatus.

Hand Protection Use nitrile gloves or PVC gauntlets.

Skin Protection If skin contact or contamination of clothing is likely, protective clothing must be worn.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

### 9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid.

Odour Pungent and intensely irritating.

pH 14 @ 20°C Boiling Point 20°C Melting Point -95°C

Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable
Explosive Properties Not applicable

Oxidising Properties No.

Vapour Pressure 757.562mmHg @ 20°C

Relative Density 0.8900

Water Solubility Completely soluble in water.

### 9.2 Other information

## Section 10. Stability & Reactivity

**10.1** Reactivity No data available.

**10.2** Chemical Stability Stable under normal conditions

**10.3** Possibility of hazardous No data available.

reactions

**10.4** Conditions to Avoid Avoid heat and contact with acids and acid fumes.

10.5 Incompatable Materials Halogens and halogen compounds. Picric acid. Potassium chlorate. Mercury. Ethylene oxide. Dimethyl sulphate.

Chromium trioxide and other chromium compounds.

10.6 Hazardous Decomposition May produce hazardous fumes if involved in a fire.

**Products** 

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Eyes The vapour will be extremely irritating to eyes and can cause chemical eye burns. Damage can range from severe

irritation and corneal scarring to permanent blindness.

Skin The liquid may cause severe burns on prolonged contact.

LD50 Skin Not available

Ingestion Ingestion will cause severe mouth burns, and if swallowed extensive damage to the oesophagus.

LD50 Oral 350mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes,

nose, throat and respiratory tract. High concentrations of vapour will effect the central nervous system causing

spasms. In fatal cases severe damage to the lungs occurs along with secondary cardiovascular effects.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity May be a mutagen but only by excessively high, probably fatal, exposure.

Reproductive Effects No information is available.

Other Information The irritant effect provides warning that control of exposure is needed. 15ppm is the threshold for irritation with

severe irritation occurring above 22ppm.

## Section 12. Ecological

12.1 Toxicity Solutions or high vapour concentrations will cause damage to vegetation. If introduced into rivers lakes etc, pH of

water is important. If >7.5-8 will form free ammonia which is toxic to aquatic life. Highly mobile and readily diluted in water courses. Low levels are readily bio-degraded in the environment. Higher levels are toxic to

marine and plant life.

LC50 Algal Not available

LC50 Crustacea Not available

LC50 Fish Not available

12.2 Persistence and

degradability

No data available.

**12.3** Bioaccumulative potential No data available.

**12.4** Mobility in soil No data available.

**12.5** Results of PBT & vPvB

assessment

Assessment not required.

**12.6** Other adverse effects None known at present.

# Section 13. Disposal Considerations

#### 13.1 Waste treatment methods

Disposal Methods Dispose of in a licensed incinerator. Never dispose of into water courses or sewerage systems.

Contaminated Packaging Clean out with a weak hydrochloric acid solution then wash out thoroughly with water. Use a licensed waste

disposer.

## **Section 14. Transport Information**

14.1 UN Number 2672

14.2 Proper Shipping Name Ammonia solution

14.3 Transport classes

UN classification Subsidiary hazard(s) None Transport category 3 ADR Hazard ID 80 **Tunnel Restriction Code** Ε 14.4 Packing Group Ш

14.5 Environment hazards See section 12.

14.6 Special precautions for No special precautions required.

user

14.7 Transport in bulk Not transported in bulk.



15.1 Safety, health and environment regulations specific for subtance/mixture.

Classification, Labeling & Packaging of Substances & Mixtures Regulations (1272/2008/CE)

Classification Skin corrosion/irritation, category 1A; Spec target organ tox - single, category 3; Hazard to aquatic environment,

category 1

Signal word Danger

Hazard Pictograms







CORROSIVE

Hazard Statements H314, H400, H335

Causes severe skin burns and eye damage. Very toxic to aquatic life. May cause respiratory irritation.

**Precautionary Statements** P260, P280, P303+P361+P353, P304+P340, P305+P351+P338, P273

> Do not breathe fume/vapours. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Avoid release to

the environment.

### 15.2 Chemical safety assessment

Assessment not required.

### **Section 16. Other Information**

The information contained in this document only covers the hazards presented by this material, it DOES NOT constitute a workplace risk assessment. See sections 11 for toxicological information and section 12 for ecological

Revision number: 1.2 (Supercedes revision 1.1)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 16 September 2024

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