Vickers Laboratories Ltd - Safety Data Sheet

0991

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

Revision: 1.2 Revision date: 16 April 2021 Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 0991

Product Name CUPRAMMONIUM HYDROXIDE SOLUTION (Shirley's)

CAS Number Mixture

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.

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 Vickers Laboratories Ltd



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(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 1B

Spec target organ tox - single, category 3 Hazard to aquatic environment, category 1

Hazard to aquatic environment, category 1

H314: Causes severe skin burns and eye damage.

H335: May cause respiratory irritation.

H400: Very toxic to aquatic life.

H410: Very toxic to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: 0991



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

lasting effects.

Precautionary Statements Do not breathe fume/vapours. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye

protection. Use only outdoors or in a well-ventilated area. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep container tightly

closed

Section 3. Composition

3.2 Mixtures

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Ammonia	1336-21-6	231-635-3		20%	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 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

Keep product moist, away from direct sources of heat and metals.

7.3 Specific end use(s)

See section 1.2.

Section 8. Workplace Exposure & Personal Protection

8.1 Control parameters

	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term (8hr TWA)		Short Term 15min period)		
Ī	Ammonia	1336-21-6	20%	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 Deep blue clear solution.

Odour Pungent and intensely irritating.

pH 14 @ 20°C
Boiling Point Not available
Melting Point Not applicable
Flash Point Not applicable
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable

Explosive Properties No. Oxidising Properties No.

Vapour Pressure 757.562mmHg @ 20°C

Relative Density 0.9200

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 No specific conditions.

10.5 Incompatable Materials Acids. Strong oxidising agents.

0.6 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 will cause burns.

LD50 Skin Not available

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

LD50 Oral Not available

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 No information is available.

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. Copper salts are harmful to the environment.

LC50 Algal Not available
LC50 Crustacea Not available
LC50 Fish Not available

12.2 Persistence and 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 not required.

assessment

degradability

12.6 Other adverse effects None known at present.

Section 13. Disposal Considerations

13.1 Waste treatment methods

Disposal Methods Dissolve in water and adjust pH to 7, then precipitate out as the sulphide. Filter off the insoluble material and

dispose of at a licensed land-fill site. Destroy excess sulphide with sodium hypochlorite, neutralise the solution

CORROSIVE

and wash to drain with copious amounts of water.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

Section 14. Transport Information

14.1 UN Number 3266

14.2 Proper Shipping Name Corrosive liquid, basic, inorganic, N.O.S.

(Cuprammonium Hydroxide Ammonia

Mixture)

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group III

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 1B; Spec target organ tox - single, category 3; Hazard to aquatic environment,

category 1; Hazard to aquatic environment, category 1

Signal word Danger

Hazard Pictograms







Hazard Statements H314, H335, H410

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

lasting effects.

Precautionary Statements P260, P264, P280, P271, P303+P361+P353, P403+P233

Do not breathe fume/vapours. Wash thoroughly after handling. Wear protective gloves / protective clothing / eye protection. Use only outdoors or in a well-ventilated area. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep container tightly

closed.

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 information.

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