Vickers Laboratories Ltd - Safety Data Sheet

4882

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

Revision: 1.2 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 4882

Product Name AMMONIA/EDTA/COPPER BUFFER (for METROHM SULPHATE

ANALYSER)

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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(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 1B 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.

Hazard to aquatic environment, category 1 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







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

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

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
Ammonium chloride	12125-02- 9	235-180-4	01-2119487950-27-XXXX	5%	Acute Tox. 4 (O), Eye Irrit. 2
Cupric sulphate	7758-99-8	231-847-6	01-2119520566-40-XXXX	1.2%	Acute Tox. 4 (O),Eye Dam. 1,Aquatic Acute 1,Aquatic Chronic 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

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 MEDICAL ATTENTION URGENTLY.

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

OBTAIN MEDICAL ATTENTION URGENTLY.

Personal protection for first Wear protective gloves / eye protection.

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. Vapour-air mixtures are explosive.

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 . Protect from direct sun and store away from sources of ignition.

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)			
Ammonia	1336-21-6	20%	25.0 ppm	18.0 mg/m-3	35.0 ppm	25.0 mg/m-3		
Ammonium chloride	12125-02-9	5%	-	-	-	-		
Cupric sulphate	7758-99-8	1.2%	-	-	-	-		

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 blue solution.

Odour Pungent and intensely irritating.

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

Flash Point
Upper Flammable Limit
Lower Flammable Limit
Auto Ignition

-93 C

Not applicable
Not applicable
651°C

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Explosive Properties No. Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 0.9000

Water Solubility Completely soluble in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

10.3 Possibility of hazardous

reactions

No data available.

10.4 Conditions to Avoid Hot surfaces, naked flames or other sources of ignition.

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

Products

May produce hazardous fumes if involved in a fire.

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The vapour is 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 Not considered to be a mutagen.

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.

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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.

a weak hydrochloric acid solution then wash out thoroughly with water.

Section 14. Transport Information

14.1 UN Number Non-restricted

14.2 Proper Shipping Name Non-restricted

14.3 Transport classes

UN classification None
Subsidiary hazard(s) None
Transport category None
ADR Hazard ID Non-re

ADR Hazard ID Non-restricted
Tunnel Restriction Code Non-restricted

14.4 Packing Group None

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.

Section 15. Regulatory Information

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

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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