Vickers Laboratories Ltd - Safety Data Sheet

1596

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

Revision: 1.1 Revision date: 16 April 2021
Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1596

Product Name ETHANOLAMINE pure

CAS Number 141-43-5

REACH Registration No 01-2119486455-28-XXXX

Molecular Formula

NH CH CH CH OH =61.08

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

VICKERS
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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 H314: Causes severe skin burns and eye damage.

Acute toxicity, category 4 (oral)

Acute toxicity, category 4 (dermal)

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

Acute toxicity, category 4 (inhalation) H332: Harmful if inhaled.

Spec target organ tox - single, category 3 H335: May cause respiratory irritation.
Hazard to aquatic environment, category 3 H412: Harmful 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 Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. Causes severe skin burns and eye

damage. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

Precautionary Statements Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wash

thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

Section 3. Composition

3.1 Substances

Component	CAS No. EEC No.		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)	
Ethanolamine	141-43-5	205-483-3	01-2119486455-28-XXXX	>99%	Skin Corr. 1B,Acute Tox. 4 (O),Acute Tox. 4 (D),Acute Tox. 4 (I),STOT SE 3 (I),Aquatic Chronic 3	

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. If discomfort persists

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 unconscious place in the recovery position. OBTAIN MEDICAL ATTENTION URGENTLY.

If conscious give plenty of water to drink. Do not induce vomiting. If there is difficulty in breathing give oxygen Ingestion

if available. If breathing stops or shows signs of failing, apply artificial resuscitation. 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, alcohol resistant foam, dry powder or carbon dioxide. Use water spray to keep fire exposed

containers cool.

Unsuitable Media Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards 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 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

All transfer systems should be earthed to prevent accumulation of static electricity. 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. Keep containers closed when not in use. Keep well separated from oxidising agents.

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				
l				Long Term (8hr TWA)		Short Term 15min period)		
I	Ethanolamine	141-43-5	>99%	1.0 ppm	2.5 mg/m-3	3.0 ppm	7.6 mg/m-3	

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

8.2 Exposure controls

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

Hand Protection Use solvent resistant gloves.

Eye Protection Use tightly fitting chemical splash proof glasses or goggles.

Skin Protection Avoid contact with skin. 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 Slight ammoniacal odour.

pH 12.1@0.1% Boiling Point 170°C Melting Point 4°C Flash Point 92.5°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
Explosive Properties

Not applicable
410°C
Slight.

Vapour Pressure 0.5mbar @ 20°C Relative Density 1.0155 @ 20°C

Water Solubility Completely miscible in water.

No.

9.2 Other information

No data available.

Oxidising Properties

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 Mineral acids. Strong oxidising agents.

10.6 Hazardous Decomposition Burning will produce toxic fumes of NOx, carbon monoxide and/or carbon dioxide.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid or concentrated vapour will cause severe irritation and corneal damage.

Skin Cause severe irritation and burns to the skin. May be absorbed through the skin.

LD50 Skin 1025mg/kg Rabbit

Ingestion Harmful if swallowed. Causes burns.

LD50 Oral 1720mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits may produce irritation of the eyes and

respiratory tract. High concentrations of vapour may cause loss of appetite, dizziness, fatigue and nausea. Liver and kidney damage may also occur. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

LD50 Inhalation 11.0mg/l Acute toxicity estimate

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Not teratogenic but high doses have caused maternal and foetal toxicity.

Section 12. Ecological

12.1 Toxicity Harmful to aquatic life with long lasting effects. Readily bio-degraded in the environment.

LC50 Algal Not available

LC50 Crustacea 65mg/l Daphnia magna (48 hours)
LC50 Fish 227mg/l Fathead Minnow (96 hours)

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 for organic solvents. Do not dispose of as domestic waste.

Contaminated Packaging Use a licensed waste disposer. Do not attempt to burn any residual liquids due to risk of explosion.

Section 14. Transport Information

14.1 UN Number 2491

14.2 Proper Shipping Name Ethanolamine

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.



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; Acute toxicity, category 4 (oral); Acute toxicity, category 4 (dermal); Acute

toxicity, category 4 (inhalation); Spec target organ tox - single, category 3; Hazard to aquatic environment, category

Signal word Danger

Hazard Pictograms





Hazard Statements H332, H312, H302, H314, H335, H412

Harmful if inhaled. Harmful in contact with skin. Harmful if swallowed. Causes severe skin burns and eye

damage. May cause respiratory irritation. Harmful to aquatic life with long lasting effects.

Precautionary Statements P261, P271, P264, P270, P301+P312, P304+P340

Avoid breathing dust / fume / gas / mist / vapours / spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove victim to fresh air and keep at

rest in a position comfortable for breathing.

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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