Vickers Laboratories Ltd - Safety Data Sheet

1094

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

Revision: 1.1 Revision date: 16 April 2021
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Section 1. Identification

1.1 Product Identifier 1094

Product Name 2-ETHOXYETHANOL pure

CAS Number 110-80-5

REACH Registration No 01-2119560582-38-XXXX

Molecular Formula C2 H3 OCH2 CH2 OH =90.12

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

Flammable liquid, category 3

Acute toxicity, category 3 (inhalation)

H226: Flammable liquid and vapour.

H331: Toxic if inhaled.

H302: Harmful if swallowed.

Reproductive toxicity, category 1B H360: May damage fertility or the unborn child.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Ref: 1094



Hazard Statements Flammable liquid and vapour. May damage fertility or the unborn child. Toxic if inhaled. Harmful if swallowed.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective

clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Call a

POISON CENTER or doctor/physician.

Section 3. Composition

3.1 Substances

	Component	onent CAS No. EE		REACH No.	Conc w/w	CLP Classification (1272/2008/CE)		
I	2-Ethoxyethanol	110-80-5	203-804-1	01-2119560582-38-XXXX	>99%	Flam. Liq. 3,Acute Tox. 3 (I),Acute Tox. 4 (O),Repr. 1B		

Section 4. First Aid

4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. If discomfort persists OBTAIN MEDICAL ATTENTION. Eves

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

discomfort persists OBTAIN MEDICAL ATTENTION.

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 Inhalation

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.

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. Beware: vapour is heavier than air and

will tend to accumulate at low spots.

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. Transfer absorbent to container for removal. Allow solvent to evaporate in

remote area, then dispose of absorbent as solid chemical waste. 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				
			Long Term (8hr TWA)		Short Term 15min period)		
2-Ethoxyethanol	110-80-5	>99%	2.0 ppm	8.0 mg/m-3	6.0 ppm	24.0 mg/m-3	

Exposure data source(s) 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 Odourless.
pH Not applicable
Boiling Point 135.1°C
Melting Point -70°C

Flash Point 40°C (Open cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition

15.7%
2.6%
238°C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

3.8mmHg @ 20°C Vapour Pressure

Relative Density 0.9320

Water Solubility Completely miscible in water.

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Stable under normal conditions 10.2 Chemical Stability

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 Strong oxidising agents. Hydrogen peroxide, chromium trioxide and potassium permanganate.

None unusual. Burning will produce smoke, carbon monoxide and/or carbon dioxide. **Hazardous Decomposition**

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid or concentrated vapour will be irritating to the eyes.

Skin The liquid may be absorbed across the skin in harmful amounts. Many of the effects typical of the vapour can

result from absorbtion through the skin.

LD50 Skin 3300mg/kg Rabbit

Ingestion Ingestion will cause gastrointestinal irritation. Ingestion of large amounts may cause liver and kidney damage.

LD50 Oral 2800mg/kg Rat

Inhalation The vapour may produce irritation of the eyes, nose, throat and respiratory tract. Toxic effects to the blood, liver,

kidneys, central nervous system and reproductive system have observed at levels above 300ppm, with adverse

effects noted at levels as low as 10ppm.

LD50 Inhalation 4267ppm Rat (4 hours)

TCLo Not available

Carcinogenicity No information is available. Mutagenicity Not considered to be a mutagen.

Reproductive Effects Teratogen category 1. In laboratory animals and human exposures, a decrease in sperm count, sperm

abnormalities, and a degeneration of the testes have been observed. Significant maternal toxicity, embryotoxic

effects and teratogenic effects occur.

It is regarded as posing a significant risk to exposed workers and hence low MEL's have been set. Other Information

Section 12. Ecological

12.1 Toxicity Low toxicity to fish ;LC50 24 Hr (goldfish) >5000mg/l. Theoretical Oxygen demand (ThOD)= 1.96 g/g: BOD

=1.27 g/g: COD =1.92 g/g.

LC50 Algal >1000mg/l Green algae (72 hours) LC50 Crustacea >10000mg/l Daphnia magna (48 hours)

LC50 Fish >10000mg/l Bluegill (Lepomis macrochirus) (96 hours)

12.2 Persistence and Product is biodegradable.

degradability

12.3 Bioaccumulative potential No data available.

12.4 Mobility in soil No data available.

Results of PBT & vPvB Assessment not required.

assessment

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. Never dispose of

into water courses or sewerage systems due to high risk of explosion.

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 1171

14.2 Proper Shipping Name Ethylene Glycol Monomethyl Ether

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 30
Tunnel Restriction Code D/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 Flammable liquid, category 3; Acute toxicity, category 3 (inhalation); Acute toxicity, category 4 (oral); Reproductive

toxicity, category 1B

Signal word Danger

Hazard Pictograms







Hazard Statements H226, H360, H331, H302

Flammable liquid and vapour. May damage fertility or the unborn child. Toxic if inhaled. Harmful if swallowed.

Precautionary Statements P210, P280, P261, P304+P340, P301+P310, P331, P311

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. Call a

POISON CENTER or doctor/physician.

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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