Vickers Laboratories Ltd - Safety Data Sheet

0315

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

Revision: 1.1 Revision date: 16 April 2021
Date printed: 28 October 2022

Section 1. Identification

1.1 Product Identifier 0315

Product Name ETHANOL INDUSTRIAL (99% IMS) (74 OP)

CAS Number 64-17-5

REACH Registration No 01-2119457610-43-XXXX

Molecular Formula CH, CH, OH =46.07

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



Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire LS28 6OW

UNITED KINGDOM

 Phone
 44 0113 2362811

 Fax
 +44(0)113 2362703

 Email
 safety@viclabs.co.uk

 Website
 www.viclabs.co.uk

.4 Emergency Telephone (08:00-16:30) +44(0) 113 2362811

(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

Flammable liquid, category 2

Serious eye damage/irritation, category 2

Spec target organ tox - single, category 2

H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H371: May cause damage to organs.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Hazard Statements

Highly flammable liquid and vapour. Causes serious eye irritation. May cause damage to organs.

Vickers Laboratories Ltd - Safety Data Sheet

Ref: 0315

Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Store in a well ventilated place. Keep container tightly closed. Take precautionary measures against static discharge. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. 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)
Ethanol	64-17-5	200-578-6	01-2119457610-43-XXXX	95%	Flam. Liq. 2,Eye Irrit. 2
Methanol	67-56-1	200-659-6	01-2119433307-44-XXXX	5%	Flam. Liq. 2,Acute Tox. 3 (O),Acute Tox. 3 (D),Acute Tox. 3 (I),STOT SE 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 URGENTLY.

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

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. 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)			
Ethanol	64-17-5	95%	1000.0 ppm	1920.0 mg/m-3	-	-		
Methanol	67-56-1	5%	200.0 ppm	266.0 mg/m-3	250.0 ppm	333.0 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 Fresh and characteristic.

pH Not applicable

Boiling Point Melting Point Flash Point

Upper Flammable Limit 19% Lower Flammable Limit 3.3%

Auto Ignition

Explosive Properties Moderate/severe in confined spaces.

Vickers Laboratories Ltd - Safety Data Sheet Ref: 0315 Page 3 of 6

Oxidising Properties

Vapour Pressure

No.

Relative Density

0.7893

Water Solubility Completely miscible 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

Strong oxidising agents. Nitric acid. Silver nitrate, potassium perchlorate, chromyl chloride, chromium trioxide and permanganic acid. Peroxides, potassium permanganate, sodium, potassium, platinum, potassium tertiary

butoxide.

10.6 Hazardous Decomposition

Products

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

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes The liquid will cause conjunctival irritation and corneal damage. High concentrations of vapour may be irritating

to the eyes.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Unlikely to be absorbed

across the skin in harmful amounts.

LD50 Skin 7837 mg/kg Acute toxicity estimate

Ingestion Low order of acute toxicity. Fatal dose in man 300-400ml. Ingestion of large amounts will produce central

nervous system depression. Symptoms may include nausea, vomiting muscular incoordination and loss of

consciousness. Aspiration during swallowing or vomiting may injure lungs.

LD50 Oral 2612 mg/kg Acute toxicity estimate

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

respiratory tract. High concentrations of vapour may produce central nervous system depression and

unconsciousness. Symptoms will be similar to those following ingestion.

LD50 Inhalation 78.37mg/l Acute toxicity estimate

TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Some evidence for foetoxicity and tetragenecity has been observed in experimental animals treated with high

doses of ethanol during gestation.

Other Information Contains methanol. This will not constitute a special problem since ethanol is preferentially metabolised. Chronic

intoxication may however produce damage to the optic nerve.

Ref: 0315

Section 12. Ecological

12.1 Toxicity Ethanol is readily biodegradable after 15 days in non-acclimated fresh water. 75% biodegradability occurs after

20 days in salt water.

LC50 Algal Not available

LC50 Crustacea 12,340mg/l Daphnia magna (48 hours)
LC50 Fish 14,200mg/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.

12.4 Woomity in son

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. 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 117014.2 Proper Shipping Name Ethanol

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 33
Tunnel Restriction Code D/E

14.4 Packing Group

14.5 Environment hazards See section 12.

14.6 Special precautions for

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)

No special precautions required.

Classification Flammable liquid, category 2; Serious eye damage/irritation, category 2; Spec target organ tox - single, category 2

Signal word Danger

Hazard Pictograms







Hazard Statements H225, H319, H371

Highly flammable liquid and vapour. Causes serious eye irritation. May cause damage to organs.

Precautionary Statements P210, P403+P233, P243, P280, P305+P351+P338, P304+P340

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Store in a well ventilated place. Keep container tightly closed. Take precautionary measures against static discharge. Wear protective gloves / protective clothing / eye protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. 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.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 28 October 2022

Copyright: 2022 Vickers Laboratories Ltd