Vickers Laboratories Ltd - Safety Data Sheet

1185

(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 1185

Product Name LACTIC ACID pure

CAS Number 79-33-4

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.

Molecular Formula CH CHOHCOOH =90.08

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



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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 1C

H314: Causes severe skin burns and eye damage.

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.

Precautionary Statements Wash thoroughly after handling. 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

eye irritation persists: Get medical advice/attention.

Supplemental Hazard Information (EU)

Corrosive to the respiratory tract.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Lactic acid	79-33-4	201-196-2		>80%	Skin Corr. 1C

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. In severe cases or if

exposure has been great, OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. In severe cases or if exposure has been great, OBTAIN MEDICAL

ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Do not induce vomiting.

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 Alcohol resistant foam, dry powder, or carbon dioxide. Use water spray to keep fire exposed containers cool.

Unsuitable Media Nothing specified.

5.2 Special hazards arising from the substance or mixture

Hazards Not combustible but assists burning. Presents no specific health hazard if involved in a fire.

5.3 Advice for firefighters

Advice for firefighters Consider all other materials in the vicinity.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal Protection Presents no major hazards. Do not allow other people to enter area.

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

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)		
Lactic acid	79-33-4	>80%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to maintain vapour concentrations below exposure limits. If not, use a well

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

Hand Protection Use solvent resistant gloves.

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 to pale yellow liquid.

Odour Mild odour.
pH 2 @ 20°C 5%
Boiling Point 122°C
Melting Point 16.8°C

Flash Point 74°C (Closed cup)
Upper Flammable Limit Not applicable
Lower Flammable Limit Not applicable
Auto Ignition Not applicable
Explosive Properties Slight.

Oxidising Properties No.

Vapour Pressure 1mmHg @ 85°C

Relative Density 1.0220

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 No data available.

reactions

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

10.5 Incompatable Materials Strong oxidising agents.

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

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes serious eye damage.

Skin The liquid and solutions will cause Corrosive injury to tissues contacted.

LD50 Skin >2000mg/kg Rabbit

Ingestion Low order of acute toxicity.

LD50 Oral 3543mg/kg Rat

Inhalation Presents no significant health hazard by inhalation.

LD50 Inhalation >7.94mg/l Rat (4 hours)

TCLo Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information Used in the food industry.

Section 12. Ecological

12.1 Toxicity Readily bio-degraded in the environment.

LC50 Algal Not available

LC50 Crustacea 130mg/l Daphnia magna (48 hours) LC50 Fish 130mg/l Rainbow Trout (96 hours)

12.2 Persistence and No data available.

degradability

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.

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

Section 14. Transport Information

14.1 UN Number 3265

14.2 Proper Shipping Name Corrosive liquid, acidic, organic, N.O.S. (Lactic

Acid)

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 80
Tunnel Restriction Code E

14.4 Packing Group II

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 1C

Signal word Danger

Hazard Pictograms



Hazard Statements H314

Causes severe skin burns and eye damage.

Precautionary Statements P264, P280, P305+P351+P338, P337+P313

Wash thoroughly after handling. 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

CORROSIVE

eye irritation persists: Get medical advice/attention.

Supplemental Hazard Information (EU)

EUH071

Corrosive to the respiratory tract.

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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