# Vickers Laboratories Ltd - Safety Data Sheet

0010

(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 0010

Product Name ACETIC ACID GLACIAL

CAS Number 64-19-7

REACH Registration No 01-2119475328-30-XXXX

Molecular Formula CH<sub>3</sub> соон =60.05

### 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 H226: Flammable liquid and vapour.

Skin corrosion/irritation, category 1A 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 Flammable liquid and vapour. Causes severe skin burns and eye damage.

**Precautionary Statements** 

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Wash thoroughly after

## **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Acetic acid	64-19-7	200-580-7	01-2119475328-30-XXXX	>99.5%	Flam. Liq. 3,Skin Corr. 1A

### 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. If

discomfort persists 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

Enviromental 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 spill with soda ash, lime, calcium carbonate or sodium

bicarbonate. Wash to drain 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.

#### 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)		
Acetic acid	64-19-7	>99.5%	10.0 ppm	25.0 mg/m-3	20.0 ppm	50.0 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 PVC gauntlets.

Eye Protection Use chemical full face shield.

Skin Protection Wear PVC oversuit.

Special Hazards No special precautions required.

## Section 9. Physical & Chemical Properties

## 9.1 Information on basic physical and chemical properties

Appearance Colourless liquid or frozen mass.

Odour Sharp vinegary odour and burning taste.

pH ~2.4 Boiling Point 117.9°C Melting Point 16.7°C

Flash Point 39°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition
16%
5.4%
465°C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 11.7759mmHg @ 20°C

Relative Density 1.0491

Water Solubility Completely miscible in water.

### 9.2 Other information

## 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 Hydrogen peroxide, chromium trioxide and potassium permanganate. Potassium t-butoxide. Alkalis.

10.6 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 The vapour is irritating to the eyes. The liquid and solutions will cause severe burns. Damage can range from

severe irritation and corneal scarring to permanent blindness.

Skin The liquid and solutions will cause severe burns. Repeated exposure may cause dermatitis.

LD50 Skin 1060mg/kg Rabbit

Ingestion Causes severe corrosion of the mouth, throat and gastro-intestinal tract.

LD50 Oral 3310mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce severe irritation of the

eyes, nose, throat and respiratory tract. High concentrations of vapour may seriously damage the membranes

lining the nose, throat and upper respiratory tract.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information The irritant effect provides warning that control of exposure is needed. 10ppm is the threshold for irritation with

severe irritation occurring above 25ppm.

## Section 12. Ecological

12.1 Toxicity Readily biodegradable in both fresh and salt water. Bio-oxidation as a % of Theoretical O2 Demand (ThOD) -

ThOD 1.07 gm/gm: Fresh water 5 days 76%, 10 days 82%, 20 days 96%: Salt water 5 days 66%, 10 days 88%,

20 days 100%. Slightly toxic to aquatic life ie.TLm96 10-100ppm, but unlikely to bioaccumulate.

LC50 Algal Not available
LC50 Crustacea Not available

LC50 Fish Not available

**12.2** Persistence and No data available.

degradability

ivo 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

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** 2789

14.2 Proper Shipping Name Acetic acid, glacial

14.3 Transport classes

UN classification 8
Subsidiary hazard(s) 3
Transport category 2
ADR Hazard ID 83
Tunnel Restriction Code D/E

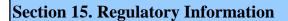
14.4 Packing Group II

**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.



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; Skin corrosion/irritation, category 1A

Signal word Danger

Hazard Pictograms





Hazard Statements H226, H314

Flammable liquid and vapour. Causes severe skin burns and eye damage.

Precautionary Statements P210, P240, P280, P303+P361+P353, P305+P351+P338, P264

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. Wash thoroughly after handling.

CORROSIVE

### 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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