Vickers Laboratories Ltd - Safety Data Sheet

2924

(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 2924

Product Name ACETONE HPLC

CAS Number 67-64-1

REACH Registration No 01-2119471330-49-XXXX

Molecular Formula (CH₃)₂ CO =58.08

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

VICKER:

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 3 H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

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 drowsiness or dizziness.

Vickers Laboratories Ltd - Safety Data Sheet

Ref: 2924

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. 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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well

ventilated place. Keep cool.

Supplemental Hazard Information (EU)

Repeated exposure may cause skin dryness or cracking.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Acetone	67-64-1	200-662-2	01-2119471330-49-XXXX	>99%	Flam. Liq. 2,Eye Irrit. 2,STOT SE 3 (D)

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.

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.

Ingestion If conscious give plenty of water to drink. Do not induce vomiting. 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.

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, 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

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)			
Acetone	67-64-1	>99%	500.0 ppm	1210.0 mg/m-3	1500.0 ppm	3620.0 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 Pungent.
pH Not applicable
Boiling Point 56.4°C
Melting Point -94.7°C

Flash Point -18°C (Closed cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition

14.3%
2.6%
465°C

Explosive Properties Severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 185mmHg @ 20°C

Relative Density 0.7972

Water Solubility Completely soluble 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. Sulphuric acid. Nitric acid. 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 Both the vapour and liquid may, produce conjunctival irritation and corneal damage.

Skin Unlikely to be an irritant on brief or occasional exposure. Repeated or prolonged contact may defat the skin

producing irritation and dermatitis. Unlikely to be absorbed across the skin in harmful amounts.

LD50 Skin 20000mg/kg Rabbit

Ingestion Low order of acute toxicity. Ingestion of large amounts will produce gastrointestinal irritation. and central

nervous system depression, leading to unconsciousness. Aspiration during swallowing or vomiting may injure

lungs.

LD50 Oral 9750mg/kg Rat

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

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

unconsciousness.

LD50 Inhalation Not available TCLo 12000ppm

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Exposure of pregnant women to 30mg/m3 and 300 mg/m3 produced embryotropic effects ranging from high lipid

values to embryotoxic effects respectively.

Section 12. Ecological

12.1 Toxicity Readily biodegradable in the environment. 76% degraded after 10 days in fresh water.

LC50 Algal Not available

LC50 Crustacea 8800mg/l Daphnia magna (48 hours)
LC50 Fish 5540mg/l Rainbow Trout (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. 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

1090 14.1 UN Number 14.2 Proper Shipping Name Acetone

14.3 Transport classes

UN classification 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 No special precautions required.

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 2; Serious eye damage/irritation, category 2; Spec target organ tox - single, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H225, H319, H336

Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness.

Precautionary Statements P210, P280, P305+P351+P338, P337+P313, P303+P361+P353, P403+P235

> Keep away from heat / sparks/open flames/hot surfaces - No smoking. 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. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well

ventilated place. Keep cool.

Supplemental Hazard Information (EU)

EUH066

Repeated exposure may cause skin dryness or cracking.

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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