Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.2 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 0503

Product Name ACETYLACETONE pure

CAS Number 123-54-6

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, COCH, COCH, =100.12

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

VICKERS

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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 (dermal)

Acute toxicity, category 3 (inhalation)

H226: Flammable liquid and vapour.

H311: Toxic in contact with skin.

H331: Toxic if inhaled.

Acute toxicity, category 4 (oral) H302: Harmful if swallowed.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled.

Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. **Precautionary Statements**

Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. 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)
Acetylacetone	123-54-6	204-634-0		>99%	Flam. Liq. 3,Acute Tox. 3 (D),Acute Tox. 3 (I),Acute Tox. 4

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. OBTAIN MEDICAL Eyes

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.

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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)		
Acetylacetone	123-54-6	>99%	-	-	-	-	

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.

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 Pleasant sweet odour.
pH Not applicable
Boiling Point 139.5 °C
Melting Point -15 °C

Flash Point 34°C (Closed cup)

Upper Flammable Limit 12.8%

Lower Flammable Limit 2.6% Auto Ignition 383 °C

Explosive Properties Severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 7.9 hPa @ 20 °C

Relative Density 0.9724 Water Solubility 154.5 g/L

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. Sulphuric acid. Nitric acid. Alkalis.

0.6 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 790 - 1370mg/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 570 - 760mg/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 Not available

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 40mg/l Daphnia magna (24 hours)

LC50 Crustacea Not available

LC50 Fish 106mg/l Fish (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.

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

TOXIC

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 2310

14.2 Proper Shipping Name Pentan-2-4-dione

14.3 Transport classes

UN classification Subsidiary hazard(s) 6.1 Transport category ADR Hazard ID 36 Tunnel Restriction Code D/E 14.4 Packing Group Ш

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 3; Acute toxicity, category 3 (dermal); Acute toxicity, category 3 (inhalation); Acute

toxicity, category 4 (oral)

Signal word Danger

Hazard Pictograms





Hazard Statements H226, H302, H311, H331

Flammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled.

Precautionary Statements P233, P280, P261, P301+P310, P331, P302+P352, P304+P340

> Keep container tightly closed. Wear protective gloves / protective clothing / eye protection / face protection. Avoid breathing dust / fume / gas / mist / vapours / spray. IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting. IF ON SKIN: Wash with plenty of soap and water. 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.

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