Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.2

Revision date: Date printed: 16 April 2021 03 February 2023

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Section 1. Identification

Product Identifier	0503
Product Name	ACETYLACETONE pure
CAS Number REACH Registration No	123-54-6 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

1.4

1.1

Vickers Laboratories Ltd



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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) Acute toxicity, category 4 (oral) H226: Flammable liquid and vapour. H311: Toxic in contact with skin. H331: Toxic if inhaled. H302: Harmful if swallowed.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Hazard StatementsFlammable liquid and vapour. Harmful if swallowed. Toxic in contact with skin. Toxic if inhaled.Precautionary StatementsKeep container tightly closed. Wear protective gloves / protective clothing / eye protection / face pro

ents 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.

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 (O)

Section 4. First Aid

4.1 Description of first aid measures

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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 aiders	Wear protective gloves / eye protection.

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

Vapour-air mixtures are explosive.

5.3 Advice for firefighters

Hazards

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

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

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. 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 da	ta currently available.	
8.2 Exposure cont	trols			
Respiratory Protection			tion to maintain vapour concentration ge organic vapour respirator, or use sel	s below exposure limits. If not, use a well f contained breathing apparatus.
Hand Protec	tion	Use solvent resistant gloves.		
Eye Protecti	on	Use tightly fitting chemical s	plash proof glasses or goggles.	
Skin Protect	ion	Avoid contact with skin. If sl	kin contact or contamination of clothin	ng is likely, protective clothing must be worr

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.	
pН	Not applicable	
Boiling Point	139.5 °C	
Melting Point	-15 °C	
Flash Point	34°C (Closed cup)	
Upper Flammable Limit	12.8%	
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Lower Flammable Limit2.6%Auto Ignition**383** °CExplosive PropertiesSevere in confined spaces.Oxidising PropertiesNo.Vapour Pressure**7.9 hPa @ 20** °CRelative Density0.9724Water Solubility154.5 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.
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	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 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.

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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

N Number	2310	
oper Shipping Name	Pentan-2-4-dione	
ransport classes N classification ibsidiary hazard(s) ansport category DR Hazard ID innel Restriction Code	3 6.1 3 36 D/E	FLAMMABLE LIQUID 3 6.1
acking Group	III	
nvironment hazards	See section 12.	
pecial precautions for per	No special precautions required.	
ransport in bulk	Not transported in bulk.	
e	ecial precautions for r	ecial precautions for No special precautions required.

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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