Vickers Laboratories Ltd - Safety Data Sheet

(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

Product Identifier 1363

> Product Name PROPIONALDEHYDE pure

CAS Number

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.

СН СН СНО =58.08 Molecular Formula

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 Vickers Laboratories Ltd **Supplier**



Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire LS28 6QW

UNITED KINGDOM

Phone 44 0113 2362811 Fax +44(0)113 2362703 safety@viclabs.co.uk Email Website www.viclabs.co.uk

Emergency Telephone (08:00-16:30) +44(0) 113 2362811

(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 H225: Highly flammable liquid and vapour. Acute toxicity, category 4 (oral) H302: Harmful if swallowed. H315: Causes skin irritation. Skin corrosion/irritation, category 2

H332: Harmful if inhaled. Acute toxicity, category 4 (inhalation) Serious eye damage/irritation, category 1 H318: Causes serious eye damage. Spec target organ tox - single, category 3 H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Highly flammable liquid and vapour. Harmful if swallowed. Harmful if inhaled. May cause respiratory irritation. Causes skin irritation. Causes serious eye damage. Hazard Statements

Precautionary Statements

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses if present and easy to do and continue rinsing.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Propionaldehyde	123-38-6	-		>99%	Flam. Liq. 2,Acute Tox. 4 (O),Skin Irrit. 2,Acute Tox. 4 (I),Eye Dam. 1,STOT SE 3 (I)

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

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. 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)		
Propionaldehyde	123-38-6	>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 PVC gauntlets.

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 fruity odour.
pH Not applicable

Boiling Point 49°C Melting Point -81°C

Flash Point -40°C (Closed cup)

Upper Flammable Limit 17% Lower Flammable Limit 2.6% 206°C Auto Ignition

Explosive Properties Severe in confined spaces.

Oxidising Properties No.

Vapour Pressure 317mmHg @ 20°C

Relative Density 0.8100

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

reactions

No data available.

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

10.5 Incompatable Materials Acids. Alkalis. Reacts violently with many oxygenated organic

compounds, eg. alcohols, ketones, phenols, anhydrides etc.

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

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Causes damage to eyes. The vapour will cause severe irritation.

Skin The liquid is irritating to the skin. Repeated exposure may cause dermatitis. May cause skin sensitisation.

LD50 Skin 2460mg/kg Rabbit

Ingestion will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea. Ingestion

LD50 Oral 1690mg/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 >4.6mg/l Rat (4 hours)

TCLo Not available

Carcinogenicity It is suspected as a long term carcinogen in man but evidence is inconclusive.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects Some evidence for foetoxicity and tetragenecity has been observed in experimental animals

May cause respiratory irritation. Specific target organ toxicity after single exposure, category 3. In severe cases or if exposure has been great, OBTAIN MEDICAL ATTENTION. Other Information

Section 12. Ecological

12.1 Toxicity No specific environmental hazard.

LC50 Algal Not available LC50 Crustacea Not available

LC50 Fish 14mg/l Fathead Minnow (96 hours)

12.2 Persistence and

degradability

No data available.

No data available. 12.3 Bioaccumulative potential 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 1275

14.2 Proper Shipping Name Propionaldehyde

14.3 Transport classes

UN classification 3
Subsidiary hazard(s) None
Transport category 2
ADR Hazard ID 33
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.

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; Acute toxicity, category 4 (oral); Skin corrosion/irritation, category 2; Acute toxicity,

category 4 (inhalation), Serious eye damage/irritation, category 1; Spec target organ tox - single, category 3

Signal word Danger

Hazard Pictograms







Hazard Statements H225, H302, H332, H335, H315, H318

Highly flammable liquid and vapour. Harmful if swallowed. Harmful if inhaled. May cause respiratory irritation.

Causes skin irritation. Causes serious eye damage.

Precautionary Statements P210, P240, P261, P280, P302+P352, P305+P351+P338

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Avoid breathing dust / fume / gas / mist / vapours / spray. Wear protective gloves / protective clothing / eye protection. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for

several minutes. Remove contact lenses if present and easy to do and continue rinsing.

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.

Revision number: 1.1 (Supercedes revision 1.0)

Revision date: 16 April 2021

Reviewed by chemist: 16 April 2021

Printed date: 03 February 2023

Copyright: 2023 Vickers Laboratories Ltd