Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 1.1

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

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Section 1. Identification

L	Product Identifier	1685
	Product Name	n-BUTYRALDEHYDE pure
	CAS Number REACH Registration No	123-72-8 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 ₂ CH ₂ CH ₂ CHO =72.11

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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		(24ff) 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

H225: Highly flammable liquid and vapour.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Hazard Statements

Highly flammable liquid and vapour.

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep container tightly closed.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
n-Butyraldehyde	123-72-8	204-646-6		98%	Flam. Liq. 2
	-				

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. 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.
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 MediaWater spray, foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool.Unsuitable MediaDo 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

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 SpillageContain and absorb on inert material. Transfer absorbent to salvage container for removal. Wash area down with
copious amounts of water.Minor SpillageContain 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 F	Exposure Limits
			Long Term (8hr TWA)	Short Term 15min period)
n-Butyraldehyde	123-72-8	98%		
Exposure data source(s)		No occupational exposure da	ta currently available.	
8.2 Exposure contr	ols			
Respiratory Protection			tion to maintain vapour concentrations e organic vapour respirator, or use self	below exposure limits. If not, use a well contained breathing apparatus.
Hand Protect	ion	Use solvent resistant gloves.		
Eye Protectio	n	Use tightly fitting chemical s	plash proof glasses or goggles.	
Skin Protection	on	Avoid contact with skin. If sk	in contact or contamination of clothin	g is likely, protective clothing must be wor
Special Hazar	rds	No special precautions requir	ed.	

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance	Clear colourless liquid.
Odour	Unpleasant smell. Stench!
рН	Not applicable
Boiling Point	74°C
Melting Point	-97°C
Flash Point	-7°C (Closed cup)
Upper Flammable Limi	t 8%
Lower Flammable Limit	it 1.8%
Auto Ignition	190°C
Explosive Properties	Slight.
Oxidising Properties	No.
Vapour Pressure	Not applicable
Relative Density	0.8000
Water Solubility	Moderately soluble in water.

9.2 Other information

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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	Oxidising agents, strong bases, strong reducing agents and strong acids.
10.6	Hazardous Decomposition Products	Burning will produce smoke, carbon monoxide and/or carbon dioxide.

Section 11. Toxicological Information

11.1 Information on toxicological effects

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Eyes	Both the vapour and liquid may, produce conjunctival irritation and corneal damage.
Skin	Presents no significant hazard through skin contact.
LD50 Skin	3560mg/kg Rabbit
Ingestion	Ingestion may cause severe irrtation of the mouth, throat and gastro-intestinal tract. May act as a narcotic.
LD50 Oral	5890mg/kg Rat
Inhalation	Prolonged exposure to vapour concentrations above the occupational exposure limits may seriously damage the membranes lining the nose, throat and upper respiratory tract. May cause pulmonary oedema on prolonged exposure.
LD50 Inhalation	>5.46mg/l Rat (4 hours)
TCLo	Not available
Carcinogenicity	No information is available.
Mutagenicity	May be a mutagen.
Reproductive Effects	No information is available.

Section 12. Ecological

12.1	Toxicity	Small amounts present no specific environmental hazard.
	LC50 Algal	Not available
	LC50 Crustacea	195mg/l Daphnia magna (24 hours)
	LC50 Fish	25.8mg/l Fathead Minnow (96 hours)
12.2	Persistence and degradability	Product is biodegradable.
12.3	Bioaccumulative potential	Not expected to bioaccumulate.
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

14.1	UN Number	1129		
14.2	Proper Shipping Name	Butyraldehyde		
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID Tunnel Restriction Code	3 None 2 33 D/E	FLAMMABLE LIQUID	
4.4	Packing Group	D/E II		
4.5	0	See section 12.		
14.6	Special precautions for user	No special precautions required.		
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 2
Signal word	Danger
Hazard Pictograms	
Hazard Statements	H225 Highly flammable liquid and vapour.
Precautionary Statements	P210, P233, P243, P280, P303+P361+P353, P403 Keep away from heat / sparks/open flames/hot sur precautionary measures against static discharge. W

P210, P233, P243, P280, P303+P361+P353, P403+P233 Keep away from heat / sparks/open flames/hot surfaces - No smoking. Keep container tightly closed. Take precautionary measures against static discharge. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Store in a well ventilated place. Keep container tightly closed.

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: 12 August 2023

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