SLS Select Education - 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 25 January 2022

CHE5354SE

Section 1. Identification

l	Product Identifier	CHE5354SE
	Product Name	PROPIONALDEHYDE pure 100ml.
	CAS Number REACH Registration No	123-38-6 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, CH, CHO =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

1.1

SLS Select Education



Wilford Industrial Estate Ruddington Lane Wilford Nottingham NG11 7EP UNITED KINGDOM

Phone	0115 9821111
Fax	0115 9825275
Email	sales@scientific-labs.com

1.4	Emergency Telephone	(08:00-17:00)	0115 9821111
		(24hr)	112
		(Have this docum	ent 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 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 H225: Highly flammable liquid and vapour.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H332: Harmful if inhaled.
H318: Causes serious eye damage.
H335: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word

Danger

Hazard Pictograms



Hazard StatementsHighly flammable liquid and vapour. Harmful if swallowed. Harmful if inhaled. May cause respiratory irritation.
Causes skin irritation. Causes serious eye damage.Precautionary StatementsKeep 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

1	
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.
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, 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 1	5min 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.
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 fruity odour.
pН	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%
Auto Ignition	206°C
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.
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	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	Ingestion will cause severe internal irritation and damage, nausea, vomiting, abdominal pains and diarrhoea.
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
Other Information	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.

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.	
12.3	Bioaccumulative potential	No data available.	
12.4	Mobility in soil	No data available.	

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- **12.5** Results of PBT & vPvB Assessment not required. assessment
- **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	1275	
14.2	Proper Shipping Name	Propionaldehyde	J.
14.3	Transport classes UN classification Subsidiary hazard(s) Transport category ADR Hazard ID	3 None 2 33 D/E	FLAMMABLE LIQUID
14.4	Tunnel Restriction Code Packing Group	D/E II	
14.5	Environment hazards	See section 12.	
14.6	Special precautions for user	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; 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.

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