# **SLS Select Education - Safety Data Sheet**

CHE5474SE

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

Revision: 1.1 Revision date: 16 April 2021 Date printed: 25 January 2022

**Section 1. Identification** 

1.1 Product Identifier CHE5474SE

Product Name BENZALDEHYDE pure 500ml.

CAS Number 100-52-7

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 C, H, CHO =106.12

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 SLS Select Education

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Wilford Nottingham NG11 7EP

UNITED KINGDOM

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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

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

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Warning

Hazard Pictograms



Hazard Statements Harmful if swallowed.

POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

# **Section 3. Composition**

#### 3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
Benzaldehyde	100-52-7	202-860-4		100%	Acute Tox. 4 (O)

## 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. If discomfort persists

OBTAIN MEDICAL ATTENTION.

Skin Wash off skin thoroughly with water. If discomfort persists OBTAIN MEDICAL ATTENTION.

Inhalation Remove from exposure.

Ingestion Wash out the patients mouth thoroughly with water. Do not induce vomiting. OBTAIN MEDICAL

ATTENTION.

Personal protection for first Wear protective gloves / eye protection.

aiders

#### 4.2 Most important symptoms and effects, both acute & delayed.

Symptoms include, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

#### 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.

Unsuitable Media Nothing specified.

## 5.2 Special hazards arising from the substance or mixture

Hazards May evolve toxic fumes if involved in a fire.

#### 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 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

Enviromental 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 Cover spill with wet earth or sand and transfer to steel container for disposal. Wash area down with copious

amounts of water.

Minor Spillage Cover spill with wet earth or sand and transfer to steel container for disposal. Wash area down with copious

amounts of water.

#### 6.4 Reference to other sections

## 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 to a minimum.

#### 7.2 Conditions for safe storage, including any incompatibilities

Well ventilated, cool, dry storage.

#### 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)		
Benzaldehyde	100-52-7	100%	-	-	-	-	

Exposure data source(s) No occupational exposure data currently available.

#### 8.2 Exposure controls

Respiratory Protection Use L.E.V. or natural ventilation to reduce vapour concentrations to a minimum. If not, use a well maintained

chemical cartridge organic vapour respirator, or use self contained breathing apparatus.

Hand Protection Use solvent resistant gloves.

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 to pale yellow liquid.

Odour Bitter almonds.
pH Not applicable
Boiling Point 179°C
Melting Point -56°C

Flash Point 66°C (Closed cup)

Upper Flammable Limit 8.5%
Lower Flammable Limit 1.4%
Auto Ignition 190°C
Explosive Properties No.
Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.0520

Water Solubility Slightly soluble 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

SLS Select Education - Safety Data Sheet Ref: CHE5474SE Page 3 of 5

**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.

0.6 Hazardous Decomposition

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 are, irritating to the eyes.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis.

LD50 Skin >1250mg/kg Rabbit

Ingestion Acts as a narcotic in high concentrations. Ingestion of 50-60ml may cause death.

LD50 Oral 1300mg/kg Rat

Inhalation High concentrations of vapour may effect the central nervous system acting as a narcotic.

LD50 Inhalation >3mg/l Rat
TCLo Not available

Carcinogenicity No information is available.

Mutagenicity No information is available.

Reproductive Effects None identified.

# Section 12. Ecological

**12.1** Toxicity No specific environmental hazard.

LC50 Algal 34mg/l Green algae

LC50 Crustacea 50mg/l Daphnia magna (24 hours)

LC50 Fish 1.07mg/l Bluegill (Lepomis macrochirus) (96 hours)

**12.2** Persistence and Material is readily bio-degradable in the environment. Passes BOD >60%.

degradability

12.3 Bioaccumulative potential Not expected to bioaccumulate.

**12.4** Mobility in soil No data available.

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.

Contaminated Packaging Wash out containers with water. Use a licensed waste disposer.

# **Section 14. Transport Information**

**14.1 UN Number** 1990

14.2 Proper Shipping Name Benzaldehyde

14.3 Transport classes

UN classification 9
Subsidiary hazard(s) None
Transport category 3
ADR Hazard ID 90
Tunnel Restriction Code E

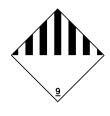
14.4 Packing Group III

**14.5 Environment hazards** See section 12.

**14.6 Special precautions for** No special precautions required.

usei

**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 Acute toxicity, category 4 (oral)

Signal word Warning

Hazard Pictograms



Hazard Statements H302

Harmful if swallowed.

Precautionary Statements P264, P270, P301+P312, P330

Wash thoroughly after handling. Do not eat, drink or smoke when using this product. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

## 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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