# Scientific Laboratory Supplies - Safety Data Sheet

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

Revision: 1.1 Revision date: 16 April 2021 16 September 2024

Date printed:

## **Section 1. Identification**

**Product Identifier** CHE2616

> Product Name n-BUTYRALDEHYDE pure 250ml.

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.

CH CH CH CHO =72.11 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 **Supplier** Scientific Laboratory Supplies

SCIENTIFIC **LABORATORY** SUPPLIES

Unit 6, Foresters Avenue Fairham Business Park

Fairham Nottingham NG11 2AF

UNITED KINGDOM

Phone 0115 9821111 Fax 0115 9825275

sales@scientific-labs.com Email

**Emergency Telephone** (08:00-17:00) 0115 9821111

> (24hr) 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.

Ref: CHE2616

### 2.2 Label elements

### Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms



Hazard Statements Highly flammable liquid and vapour. **Precautionary Statements** 

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

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

## Section 4. First Aid

#### 4.1 Description of first aid measures

Irrigate thoroughly with plenty of water for at least 10 minutes, holding the eye open. OBTAIN MEDICAL Eyes

ATTENTION.

Skin Wash off skin thoroughly with water. Remove contaminated clothing immediately and wash before re-use. If

discomfort persists OBTAIN MEDICAL ATTENTION.

Remove from exposure. Keep warm and at rest. If there is difficulty in breathing give oxygen if available. If Inhalation

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.

#### 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

Water spray, foam, dry powder or carbon dioxide. Use water spray to keep fire exposed containers cool. Extinguishing Media

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

Evacuate area immediately. Keep up wind. Avoid exposure to toxic vapours and fumes. Fire-fighters should wear Advice for firefighters

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 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	Component CAS No Concentration		Workplace Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
n-Butyraldehyde	123-72-8	98%	-	=	-	-	

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

#### 8.2 Exposure controls

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 liquid.
Odour Unpleasant smell. Stench!

pH Not applicable

Boiling Point 74°C Melting Point -97°C

Flash Point -7°C (Closed cup)

Upper Flammable Limit 8%
Lower Flammable Limit 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

No data available.

## Section 10. Stability & Reactivity

10.1 Reactivity No data available.

10.2 Chemical Stability Stable under normal conditions

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.

Hazardous Decomposition

Burning will produce smoke, carbon monoxide and/or carbon dioxide.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

Both the vapour and liquid may, produce conjunctival irritation and corneal damage. Eyes

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.

>5.46mg/l Rat (4 hours) LD50 Inhalation

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.

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 Disposal Methods

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 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

**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)

No special precautions required.

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+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.

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