Vickers Laboratories Ltd - Safety Data Sheet

0125

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

Revision: 1.1 Revision date: 16 April 2021
Date printed: 12 August 2023

Section 1. Identification

1.1 Product Identifier 0125

Product Name BUTAN-1-OL

CAS Number 71-36-3

REACH Registration No 01-2119484630-38-XXXX

Molecular Formula

CH₃ (CH₂)₃ OH =74.12

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 Vickers Laboratories Ltd



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Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Classification according to regulation 1272/2008/EC

Flammable liquid, category 3

Acute toxicity, category 4 (oral)

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 1

Spec target organ tox - single, category 3

H226: Flammable liquid and vapour.

H302: Harmful if swallowed.

H315: Causes skin irritation.

H318: Causes serious eye damage.

H318: May cause respiratory irritation.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms







Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May Hazard Statements

cause respiratory irritation.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective

clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. Do not eat, drink or smoke when using this product. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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)
Butan-1-ol	71-36-3	200-751-6	01-2119484630-38-XXXX	>99.5%	Flam. Liq. 3,Acute Tox. 4 (O),Skin Irrit. 2,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.

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 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. Beware: vapour is heavier than air and

will tend to accumulate at low spots.

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. 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

All transfer systems should be earthed to prevent accumulation of static electricity. 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

Ī	Component	CAS No	Concentration	Workplace Exposure Limits				
				Long Term	Long Term (8hr TWA) Short Term 15min period		n period)	
ĺ	Butan-1-ol	71-36-3	>99.5%	-	-	50.0 ppm	154.0 mg/m-3	

Exposure data source(s) IOELV: Indicative Occupational Exposure Limit Value.

8.2 Exposure controls

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

Hand Protection Use solvent resistant gloves.

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 Rancid odour.
pH Not applicable
Boiling Point 117.5°C
Melting Point -88.9°C

Flash Point 29°C (Open cup)

Upper Flammable Limit
Lower Flammable Limit
Auto Ignition

11.2%
1.4%
345°C

Explosive Properties Moderate/severe in confined spaces.

Oxidising Properties No.

5.5mmHg @ 20°C Vapour Pressure

Relative Density 0.8090 Water Solubility 8%

9.2 Other information

No data available.

Section 10. Stability & Reactivity

10.1 Reactivity No data available.

Stable under normal conditions 10.2 Chemical Stability

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. Nitric acid. Silver nitrate, potassium perchlorate, chromyl chloride, chromium trioxide

and permanganic acid. Peroxides, potassium permanganate, sodium, potassium, platinum, potassium tertiary

butoxide.

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

Both the vapour and liquid may, be irritating to the eyes. High concentrations of vapour may cause burning Eyes

sensations, lachrymation, blurred vision and photophobia.

Skin Repeated or prolonged contact may defat the skin producing irritation and dermatitis. Many of the effects typical

of the vapour can result from absorbtion through the skin.

LD50 Skin 4200mg/kg Rabbit

Ingestion may cause symptoms resembling those of alcoholic intoxication ie excitation and irritability. Ingestion Ingestion

of large amounts may cause liver and kidney damage.

LD50 Oral 790mg/kg Rat

Inhalation Exposure to vapour concentrations above the occupational exposure limits will produce irritation of the eyes,

nose, throat and respiratory tract. High concentrations of vapour will effect the central nervous system acting as a

narcotic.

LD50 Inhalation Not available **TCLo** Not available

Carcinogenicity Not considered to be a carcinogen. Mutagenicity Not considered to be a mutagen.

Reproductive Effects No information is available.

Other Information The irritant effect provides warning and toxic dosages are unlikely to be absorbed.

Section 12. Ecological

12.1 Toxicity Readily bio-degraded in the environment.

LC50 Algal Not available

LC50 Crustacea 1328mg/l Daphnia magna (48 hours) LC50 Fish 1376mg/l Fathead Minnow (96 hours)

12.2 Persistence and

degradability

No data available.

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

12.5 Results of PBT & vPvB

assessment

Assessment not required.

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 1120 14.2 Proper Shipping Name Butanols

14.3 Transport classes

UN classification Subsidiary hazard(s) None Transport category ADR Hazard ID 30 **Tunnel Restriction Code** D/E 14.4 Packing Group Ш

14.5 Environment hazards

See section 12.

14.6 Special precautions for

14.7 Transport in bulk

Not transported in bulk.

No special precautions required.

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

damage/irritation, category 1; Spec target organ tox - single, category 3

Signal word Danger

Hazard Pictograms







Hazard Statements H226, H302, H315, H318, H335

Flammable liquid and vapour. Harmful if swallowed. Causes skin irritation. Causes serious eye damage. May

cause respiratory irritation.

Precautionary Statements P210, P280, P260, P270, P301+P330+P331, P305+P351+P338

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Wear protective gloves / protective clothing / eye protection / face protection. Do not breathe dust / fume / gas / mist / vapours / spray. Do not eat, drink or smoke when using this product. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. 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: 12 August 2023

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