Vickers Laboratories Ltd - Safety Data Sheet

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

Revision: 2.1 Revision date: 16 April 2021 Date printed: 03 February 2023

Section 1. Identification

1.1 Product Identifier 1676

Product Name 2-BROMOBUTANE pure

CAS Number 78-76-2

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 CH, CHBrCH, CH, =137.02

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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hr) 11

(Have this document to hand)

Section 2. Hazards Identification

2.1 Classification of the substance or mixture

Flammable liquid, category 2

Classification according to regulation 1272/2008/EC

Skin corrosion/irritation, category 2

Serious eye damage/irritation, category 2 Spec target organ tox - single, category 3

Hazard to aquatic environment, category 3

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

H412: Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to regulation 1272/2008/EC

Signal word Danger

Hazard Pictograms





Hazard Statements Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause respiratory

irritation. Harmful to aquatic life with long lasting effects.

Precautionary Statements Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving

equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF INHALED: Remove

victim to fresh air and keep at rest in a position comfortable for breathing.

Section 3. Composition

3.1 Substances

Component	CAS No.	EEC No.	REACH No.	Conc w/w	CLP Classification (1272/2008/CE)
2-bromobutane	78-76-2	201-140-7		>98%	Flam. Liq. 2,Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I),Aquatic Chronic 3

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.

Skin Thoroughly wash off skin with soap and water. Remove contaminated clothing immediately and wash before re-

use

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 Wash out the patients mouth thoroughly with water. 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, foam, dry powder or carbon dioxide.

Unsuitable Media Not specified.

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

Ensure no sources of ignition. Avoid breathing vapour. Wear goggles, respirator, rubber boots and heavy rubber Personal Protection

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

Cover with an activated carbon adsorbent. Sweep up, place in a bag and hold for waste disposal. Ventilate area and wash spill site after material pickup is complete. Use non-metallic tools only. Ensure no sources of ignition.

Minor Spillage Cover with an activated carbon adsorbent. Sweep up, place in a bag and hold for waste disposal. Ventilate area

and wash spill site after material pickup is complete. Use non-metallic tools only. Ensure no sources of ignition.

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. Use non-metallic tools only.

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 Exposure Limits				
			Long Term (8hr TWA)		Short Term 15min period)		
2-bromobutai	ne 78-76-2	>98%	=	- -	· -	=	

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

8.2 Exposure controls

Respiratory Protection Wear NIOSH/MSHA-approved respirator.

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

Clear colourless to pale yellow liquid. Appearance

Odour Fresh and characteristic.

Not applicable рΗ

91°C **Boiling Point** Melting Point -112°C

Flash Point 21°C (Closed cup)

Upper Flammable Limit

Lower Flammable Limit2.6%Auto Ignition265°CExplosive PropertiesNo.Oxidising PropertiesNo.

Vapour Pressure 70mbar@20°C Relative Density Not available Water Solubility Not specified.

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 Strong oxidising agents. Alkalis. Magnesium. Potassium. Sodium.

10.6 Hazardous Decomposition In combustion emits Carbon dioxide, carbon monoxide and hydogen bromide.

Products

Section 11. Toxicological Information

11.1 Information on toxicological effects

Eyes Both the vapour and liquid will, be irritating to the eyes.

Skin Causes skin irritation. The liquid may be harmful if absorbed through the skin.

LD50 Skin Not available

Ingestion May be harmful by ingestion.

LD50 Oral Not available

Inhalation May cause respiratory irritation.

LD50 Inhalation Not available
TCLo Not available
Carcinogenicity No data available.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

Other Information May also if ingested cause drowiness, nausea, dizziness, and ultimately unconsciousness. May cause damage to

kidneys & liver though prolonged or repeated exposure.

Section 12. Ecological

12.1 Toxicity Small amounts present no specific environmental hazard.

 LC50 Algal
 20.87mg/l Algae (96 hours)

 LC50 Crustacea
 32.28mg/l Daphnia (48 hours)

 LC50 Fish
 28.97mg/l Fish (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.

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 Burn in a chemical incinerator equipped with afterburners and scrubbers. Exert extra care in igniting as this

material is highly flammable.

Contaminated Packaging Burn in a chemical incinerator equipped with afterburners and scrubbers. Exert extra care in igniting as this

material is highly flammable.

Section 14. Transport Information

14.1 UN Number 2339

14.2 Proper Shipping Name 2-Bromobutane

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 No special precautions required.

user

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; Skin corrosion/irritation, category 2; Serious eye damage/irritation, category 2; Spec

target organ tox - single, category 3; Hazard to aquatic environment, category 3

Signal word Danger

Hazard Pictograms





Hazard Statements H225, H315, H319, H335, H412

Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause respiratory

irritation. Harmful to aquatic life with long lasting effects.

Hazard Statements (Packs

of 100ml/g or less)

H225, H315, H319, H335, H412

Highly flammable liquid and vapour. Causes skin irritation. Causes serious eye irritation. May cause respiratory

irritation. Harmful to aquatic life with long lasting effects.

Precautionary Statements P210, P240, P280, P303+P361+P353, P305+P351+P338, P304+P340

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Ground/bond container and receiving equipment. Wear protective gloves / protective clothing / eye protection. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do and continue rinsing. IF INHALED: Remove

victim to fresh air and keep at rest in a position comfortable for breathing.

Precautionary Statements (Packs of 100ml/g or less)

P210, P302+P352, P305+P351

Keep away from heat / sparks/open flames/hot surfaces - No smoking. IF ON SKIN: Wash with plenty of soap

and water. IF IN EYES: Rinse cautiously with water for several minutes.

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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