# Vickers Laboratories Ltd - Safety Data Sheet

0115

(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** 0115

Product Name 1-BROMOBUTANE pure

CAS Number 109-65-9

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, (CH, ), Br =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

VICKERS

Grangefield Industrial Estate

Richardshaw Road

Pudsey

West Yorkshire LS28 6QW

UNITED KINGDOM

 Phone
 44 0113 2362811

 Fax
 +44(0)113 2362703

 Email
 safety@viclabs.co.uk

 Website
 www.viclabs.co.uk

**1.4 Emergency Telephone** (08:00-16:30) +44(0) 113 2362811

hr) 11

(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. Skin corrosion/irritation, category 2 H315: Causes skin irritation.

Serious eye damage/irritation, category 2 H319: Causes serious eye irritation. Spec target organ tox - single, category 3 H335: May cause respiratory irritation.

Hazard to aquatic environment, category 2 H411: Toxic 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. Toxic to aquatic life with long lasting effects.

Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing mist/vapours/spray. Use personal protective equipment as required. IF IN EYES: Rinse cautiously with water for several minutes. Remove **Precautionary Statements** 

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)
1-bromobutane	109-65-9	203-691-9		>98%	Flam. Liq. 2,Skin Irrit. 2,Eye Irrit. 2,STOT SE 3 (I),Aquatic Chronic 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. Eyes

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.

Wash out the patients mouth thoroughly with water. OBTAIN MEDICAL ATTENTION URGENTLY. Ingestion

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

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

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

gloves.

#### 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

Cover area of spill with lime. Allow time for the hydrolysis to take place. 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. Major Spillage

Ensure no sources of ignition.

Minor Spillage Cover area of spill with lime. Allow time for the hydrolysis to take place. 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)		
1-bromobutane	109-65-9	>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

Appearance Clear colourless liquid. Fresh and characteristic. Odour

pН Not applicable 100°C **Boiling Point** -112°C Melting Point

Flash Point 13°C (Closed cup)

Upper Flammable Limit 6.6% Lower Flammable Limit

Auto Ignition Not applicable

Explosive Properties No.
Oxidising Properties No.

Vapour Pressure Not applicable Relative Density 1.276 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 No data available.

reactions

**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 Causes serious eye irritation.

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

LD50 Skin Not available

Ingestion May be harmful by ingestion.

LD50 Oral 2761mg/kg Rat

Inhalation The liquid may produce irritation of the eyes, nose, throat and respiratory tract.

LD50 Inhalation Not available
TCLo Not available

Carcinogenicity Not considered to be a carcinogen.

Mutagenicity Not considered to be a mutagen.

Reproductive Effects None identified.

### Section 12. Ecological

**12.1** Toxicity Toxic to aquatic life with long lasting effects. Not readily biodegradable.

LC50 Algal Not available
LC50 Crustacea Not available

LC50 Fish 36.7mg/l Fathead Minnow (96 hours)

**12.2** Persistence and No data available.

degradability

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

**12.5** Results of PBT & vPvB Asse

assessment

Assessment not required.

**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.

Dispose of via an authorised waste disposal contractor to an approved waste disposal site, observing all local and Contaminated Packaging

national regulations.

### **Section 14. Transport Information**

1126 14.1 UN Number

14.2 Proper Shipping Name 1-Bromobutane

14.3 Transport classes

UN classification 3 Subsidiary hazard(s) None Transport category ADR Hazard ID 33 **Tunnel Restriction Code** D/E Π

14.4 Packing Group

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)

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

target organ tox - single, category 3; Hazard to aquatic environment, category 2

Signal word Danger

Hazard Pictograms







Hazard Statements H225, H315, H319, H335, H411

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

irritation. Toxic to aquatic life with long lasting effects.

**Precautionary Statements** P210, P261, P281, P305+P351+P338

> Keep away from heat / sparks/open flames/hot surfaces - No smoking. Avoid breathing mist/vapours/spray. Use personal protective equipment as required. 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

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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