WF Education Group - Safety Data Sheet

BR1614

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

Revision: 1.1 Revision date: 16 April 2021 Date printed: 07 June 2021

Section 1. Identification

1.1 Product Identifier BR1614

Product Name 1-BROMOBUTANE pure 100ml.

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 WF Education Group

VICKERS
Working together with
TIMSTAR
Part of Confidence from Group

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(24hr) 112 (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 2

H225: Highly flammable liquid and vapour.

H315: Causes skin irritation. H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

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





Ref: BR1614



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

irritation. Toxic to aquatic life with long lasting effects.

Precautionary Statements 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.

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,S Chronic 2		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

Eves 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-

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.

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

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

Major 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.

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				
l				Long Term (8hr TWA)		Short Term 15	5min 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.

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.

-112°C

Section 9. Physical & Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance Clear colourless liquid.
Odour Fresh and characteristic.

pH Not applicable
Boiling Point 100°C

Flash Point 13°C (Closed cup)

Upper Flammable Limit 6.6% Lower Flammable Limit 2.8%

Melting Point

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 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

into water courses or sewerage systems due to high risk of explosion.

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

national regulations.

Section 14. Transport Information

14.1 UN Number 1126

14.2 Proper Shipping Name 1-Bromobutane

14.3 Transport classes

UN classification Subsidiary hazard(s) None Transport category 2 ADR Hazard ID 33 **Tunnel Restriction Code** D/E 14.4 Packing Group П

14.5 Environment hazards

14.6 Special precautions for

See section 12.

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)

No special precautions required.

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 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

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