

2-BROMOBUTANE

Page: 1

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Section 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name: 2-BROMOBUTANE

CAS number: 78-76-2

EINECS number: 201-140-7

Product code: BR20104

Synonyms: SEC-BUTYL BROMIDE

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of substance / mixture: Laboratory Chemicals, Manufacture of Substances.

1.3. Details of the supplier of the safety data sheet

Company name:	Eurolab Supplies Limited
	Unit 6 - Ravenhead Business Park
	Ravenhead Road
	St Helens
	Merseyside
	WA10 3DB
Tel:	01744 455 100
Fax:	0870 034 2056
Email:	sales@eurolabsupplies.co.uk

1.4. Emergency telephone number

Emergency tel: 01744 455 100

(office hours only)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification under CLP: Flam. Liq. 2: H225

Most important adverse effects: Highly flammable liquid and vapour.

2.2. Label elements

Label elements:

Hazard statements: H225: Highly flammable liquid and vapour.

Signal words: Danger

Hazard pictograms: GHS02: Flame



2-BROMOBUTANE

Page: 2

Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

2.3. Other hazards

Other hazards: In use, may form flammable / explosive vapour-air mixture.

PBT: This product is not identified as a PBT/vPvB substance.

Section 3: Composition/information on ingredients

3.1. Substances

Chemical identity: 2-BROMOBUTANE

CAS number: 78-76-2

EINECS number: 201-140-7

Section 4: First aid measures

4.1. Description of first aid measures

Skin contact: Wash immediately with plenty of soap and water. Consult a doctor.

Eye contact: Bathe the eye with running water for 15 minutes. Consult a doctor.

- **Ingestion:** Do not induce vomiting. Never give anything by mouth to an unconcious person Rinse mouth with water. Consult a doctor.
- **Inhalation:** Remove casualty from exposure ensuring one's own safety whilst doing so. If breathing is irregular or stopped, administer artifical respiration. Consult a doctor.

4.2. Most important symptoms and effects, both acute and delayed

Skin contact:No data available.Eye contact:No data available.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

4.3. Indication of any immediate medical attention and special treatment needed

Immediate / special treatment: Show this safety data sheet to the doctor in attendance. The most important known

symptoms and effects are described in the labelling (see section 2.2) and/or in section

11

Section 5: Fire-fighting measures

5.1. Extinguishing media

Extinguishing media: Alcohol resistant foam. Water spray. Carbon dioxide. Dry chemical powder. Use water

spray to cool containers.

5.2. Special hazards arising from the substance or mixture

Exposure hazards: Highly flammable. In combustion emits toxic fumes. Forms explosive air-vapour mixture.

Vapour may travel considerable distance to source of ignition and flash back. In

2-BROMOBUTANE

combustion emits toxic fumes of carbon dioxide / carbon monoxide. In combustion

emits toxic fumes of hydrogen bromide.

5.3. Advice for fire-fighters

Advice for fire-fighters: Wear self-contained breathing apparatus. Wear protective clothing to prevent contact

with skin and eyes.

Section 6: Accidental release measures

Personal precautions:	Refer to section 8 of SDS for personal protection details. Notify the police and fire
	brigade immediately. Eliminate all sources of ignition. Turn leaking containers leak-side
	up to prevent the escape of liquid.
2. Environmental precautions	5
Environmental precautions:	Do not discharge into drains or rivers. Discharge into the environment must be avoided.
	Prevent further leakage or spillage if safe to do so.
3. Methods and material for c	containment and cleaning up
Clean-up procedures:	Contain spillage, and then collect with an electronically protected vacuum cleaner or by
	wet-brushing and place in container for disposal according to local regulations (see
	section 13).

Reference to other sections: Refer to section 8 of SDS. Refer to section 13 of SDS.

Section 7: Handling and storage

7.1. Precautions for safe handl	ing
Handling requirements:	Use non-sparking tools. Ensure there is sufficient ventilation of the area. Do not handle
	in a confined space. Avoid the formation or spread of mists in the air. Avoid inhalation of
	vapour or mist. Keep away from sources of ignition - no smoking. Take measures to
	prevent build up of electrostatic charge.
7.2. Conditions for safe storage	e, including any incompatibilities
Storage conditions:	Store in a cool, well ventilated area. Keep container tightly closed. Keep away from
	sources of ignition. Prevent the build up of electrostatic charge in the immediate area.
	Ensure lighting and electrical equipment are not a source of ignition.
Suitable packaging:	Must only be kept in original packaging.
7.3. Specific end use(s)	
Specific end use(s):	No data available. Apart from uses mentioned in section 1.2 no other specific uses are

stipulated.

Page: 3

2-BROMOBUTANE

Page: 4

Section 8: Exposure controls/personal protection

8.1. Control parameters Workplace exposure limits: No data available. **DNEL/PNEC** Values **DNEL / PNEC** No data available. 8.2. Exposure controls **Engineering measures:** Ensure there is sufficient ventilation of the area. Ensure lighting and electrical equipment are not a source of ignition. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. Respiratory protection: Respiratory protection not required. Where risk assessment shows air-purifying respirators are appropriate use a full face respirator with multi purpose combination (US) or type AXBEK (EN14387 respirator cartridges as a back up to engineering controls. If the respirator is the sole means of protection use a full face supplied air respirator. Use respirators and components tested & approved under appropriate government standards eg CEN (EU) or NIOSH (US). Hand protection: Protective gloves. Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching the gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use. Wash and dry hands. Full contact Material: Fluorinated rubber Minimum layer thickness: 0.7 mm Break through time: 480 min Material tested:Vitoject® (KCL 890 / Aldrich Z677698, Size M) Use florinated rubber gloves. Minimum layer thickness 0.7mm. If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer fa Eye protection: Face shield and safety glasses. Use equipment for eye protection test and approved under approperiate government statments such as NIOSH (US) or EN 166(EU) Skin protection: Complete suit protecting against chemicals The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

State: Liquid

Colour: Light Brown

Evaporation rate: No data available.

2-BROMOBUTANE

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Oxidising:	No data available.		
Solubility in water:	No data available.		
Viscosity:	No data available.		
Boiling point/range°C:	91	Melting point/range°C:	No data available.
Flammability limits %: lower:	No data available.	upper:	No data available.
Flash point°C:	21	Part.coeff. n-octanol/water:	No data available.
Autoflammability°C:	No data available.	Vapour pressure:	No data available.
Relative density:	1.255	pH:	No data available.
VOC g/l:	No data available.		

9.2. Other information

Other information: No data available.

Section 10: Stability and reactivity

10.1. Reactivity

Reactivity: Stable under recommended transport or storage conditions.

10.2. Chemical stability

Chemical stability: Stable under normal conditions. Stable at room temperature.

10.3. Possibility of hazardous reactions

Hazardous reactions: No data available.

10.4. Conditions to avoid

Conditions to avoid: Heat. Hot surfaces. Sources of ignition. Flames. Direct sunlight. Extremes of

temperature.

10.5. Incompatible materials

Materials to avoid: Strong oxidising agents. Strong bases. Magnesium. Potassium. Sodium / Sodium

Oxides

10.6. Hazardous decomposition products

Haz. decomp. products: In combustion emits toxic fumes. In the event of fire see section 5.

Section 11: Toxicological information

11.1. Information on toxicological effects

Toxicity values: No data available.

Symptoms / routes of exposure

Skin contact:No data available.Eye contact:No data available.

Ingestion: No data available.

Inhalation: No data available.

Delayed / immediate effects: No data available.

Page: 5

2-BROMOBUTANE

Other information: Not applicable.

Section 12: Ecological information

12.1. Toxicity

Ecotoxicity values: No data available.

12.2. Persistence and degradability

Persistence and degradability: Biodegradable. No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential: No data available.

12.4. Mobility in soil

Mobility: No data available.

12.5. Results of PBT and vPvB assessment

PBT identification: This product is not identified as a PBT/vPvB substance.

12.6. Other adverse effects

Other adverse effects: Harmful to aquatic organisms.

Section 13: Disposal considerations

13.1. Waste treatment methods

Disposal operations:	Transfer to a suitable container and arrange for collection by specialised disposal	
	company. Burn in a chemical incinerator equipped with an afterburner and scrubber but	
	exert extra care as this material is highly flammable. Offer surplus and non-recyclable	
	solutions to a licensed disposal company.	
Disposal of packaging:	Dispose of as unused product.	
NB:	The user's attention is drawn to the possible existence of regional or national	
	regulations regarding disposal.	

Section 14: Transport information

14.1. UN number

UN number: UN2339

14.2. UN proper shipping name

Shipping name: 2-BROMOBUTANE

14.3. Transport hazard class(es)

Transport class: 3

14.4. Packing group

Packing group: ||

2-BROMOBUTANE

Page: 7

14.5. Environmental hazards

Environmentally hazardous: No

Marine pollutant: No

14.6. Special precautions for user

Special precautions: No special precautions.

Tunnel code: D/E

Transport category: 2

Section 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.2. Chemical Safety Assessment

Chemical safety assessment: A chemical safety assessment has not been carried out for the substance or the mixture by the supplier.

Section 16: Other information

ther information	
Other information:	This safety data sheet is prepared in accordance with Commission Regulation (EU) No
	453/2010.
	* indicates text in the SDS which has changed since the last revision.
Phrases used in s.2 and s.3:	H225: Highly flammable liquid and vapour.
Legal disclaimer:	The above information is believed to be correct but does not purport to be all inclusive
	and shall be used only as a guide. This company shall not be held liable for any
	damage resulting from handling or from contact with the above product.