

Safety Data Sheet

#36183959 · Full 16-section SDS

According to Regulation (EC) No 1907/2006

According to Regulation (EC) No 2020/878

PRODUCT	CAS NUMBER	FORMULA	VERSION	REVISION DATE
3-Bromo-1-propanol	627-18-9	C3H7BrO	10	09 Oct 2026

SECTION 1

Identification

1.1 Product identifier

Product name 3-Bromo-1-propanol

CAS number 627-18-9

EC / EINECS number 210-986-6

Chemical formula C3H7BrO

Molecular weight 138.99

SMILES OCCCB

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

For research and development purposes; not suitable for human consumption or veterinary purposes.

1.3 Details of the supplier of the safety data sheet

Molekula Limited
1 Millennium Way, Newton Aycliffe
Durham, DL5 6JW, United Kingdom
info@molekula.com · +44 (0) 3302 000333

1.4 Emergency telephone number

0344 892 0111 — National Poisons Information Service (NPIS) (United Kingdom — for healthcare professionals (via TOXBASE))

SECTION 2

Hazard identification

2.1 Classification of the substance or mixture

Acute toxicity, Category 4 (H302)

Serious eye damage, Category 1 (H318)

2.2 Label elements



DANGER

CODE	HAZARD STATEMENT
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H302	Harmful if swallowed
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H318	Causes serious eye damage
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CODE	PRECAUTIONARY STATEMENT
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P280	Wear protective gloves/protective clothing/eye protection/face protection
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P301+312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
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P301+330	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
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P305+351+338	IF IN EYES: Rinse with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
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P309+P311	IF exposed or you feel unwell: Call a POISON CENTER or doctor/physician
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2.3 Other hazards

Contains no PBT or vPvB components and no endocrine disrupting components at levels of 0.1% or higher.

SECTION 3

Composition / information on ingredients

3.1 Substances

Name	3-Bromo-1-propanol
CAS number	627-18-9
EC number	210-986-6
Concentration / purity	~100%
Classification according to Regulation (EC) No 1272/2008	Acute toxicity, Category 4 (H302) Serious eye damage, Category 1 (H318)
Hazard statements	H302, H318
Acute toxicity estimate (ATE)	No data available
Impurities / stabilising additives	Not applicable

SECTION 4

First-aid measures

4.1 Description of first aid measures

Inhalation	Move to fresh air; seek medical advice if symptoms persist.
Skin contact	Rinse with plenty of water for several minutes; seek medical advice if symptoms persist.
Eye contact	Rinse with plenty of water for several minutes; seek medical advice if symptoms persist.
Ingestion	Immediately make victim drink water (two glasses at most); consult a physician.

Get medical attention if any discomfort continues. Show this Safety Data Sheet (SDS) to medical personnel. First aiders/ medical personnel need to protect themselves.

4.2 Most important symptoms and effects, both acute and delayed

Treat symptomatically.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5

Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media Water, foam, carbon dioxide (CO₂), dry powder.

Unsuitable extinguishing media No limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible; vapours heavier than air may spread along floors; forms explosive mixtures with air on intense heating; may release carbon oxides and hydrogen bromide gas.

5.3 Advice for firefighters

Wear self-contained breathing apparatus; remove container from danger zone and cool with water; prevent fire water from contaminating surface or ground water.

SECTION 6

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapours/aerosols, avoid substance contact, ensure adequate ventilation, keep away from heat and ignition sources, evacuate the danger area.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and material for containment and cleaning up

Cover drains; collect, bind and pump off spills; take up with liquid-absorbent material (e.g. Chemizorb®), dispose of properly and clean affected area.

6.4 Reference to other sections

For specific precautions, see Section 8 and Section 13.

SECTION 7

Handling & storage

7.1 Precautions for safe handling

Use with adequate ventilation; wear gloves and eye protection.

7.2 Conditions for safe storage, including any incompatibilities

Storage temperature	Ambient
Conditions for safe storage (incompatibilities)	Keep container tightly closed in a cool, dry place; keep away from strong oxidizers and strong bases.

7.3 Specific end use(s)

See Section 1.2.

SECTION 8

Exposure controls / personal protection

8.1 Control parameters

Occupational exposure limits (OEL / WEL) *Not applicable*

DNEC/PNEC data *Not applicable*

8.2 Exposure controls

Eye / face protection	Chemical splash goggles Wear eye/face protection as recommended. All eye/face protection should comply with EN ISO 16321-1:2022.
Skin / hand protection	Recommended gloves: Viton rubber (fluor rubber), 0.7mm (480mins).
Respiratory protection	Full-face respirator Keep self-contained breathing apparatus readily available for emergency use. Provide adequate ventilation. If ventilation is insufficient, suitable respiratory protection must be provided. Respiratory equipment: Reusable Air-Purifying Respirator (APR). Filter type: ABEK. Standard: EN 14387.
Other protection	Protective clothing.
Environmental exposure controls	Do not let product enter drains.

SECTION 9

Physical & chemical properties

9.1 Information on basic physical and chemical properties

Appearance / physical state	Liquid DERIVED FROM: LITERATURE
Colour	Colorless to pale yellow DERIVED FROM: LITERATURE
Odour	Not known DERIVED FROM: LITERATURE
Melting / freezing point	Not applicable
Boiling point	approx. 62 °C at 5 mmHg DERIVED FROM: LITERATURE
Flammability	Not applicable
Lower and upper explosion limit	Not applicable
Flash point	65 °C DERIVED FROM: LITERATURE
Auto-ignition temperature	Not applicable
Decomposition temperature	Not applicable
pH	Not applicable
Acidity	Not applicable
Kinematic viscosity	Not applicable
Solubility	Not applicable
Partition coefficient n-octanol/water (log value)	Not applicable
Vapour pressure	Not applicable
Density (g/mL)	1.537 g/mL DERIVED FROM: LITERATURE
Relative vapour density	Not applicable
Particle characteristics	Not applicable

9.2 Other information

No data available

SECTION 10

Stability & reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating.
A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical stability

Generally stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Violent reactions possible with strong oxidizing agents.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agents, strong bases.

10.6 Hazardous decomposition products

Hydrogen bromide, carbon oxides. See section 5

SECTION 11

Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (LD50 / LC50) Acute toxicity estimate oral: 500.1 mg/kg (expert judgement); may cause irritation of respiratory tract.

Skin corrosion / irritation *Not applicable*

Eye corrosion / irritation *Not applicable*

Respiratory / skin sensitisation *Not applicable*

Carcinogenicity *Not applicable*

Mutagenicity *Not applicable*

Reproductive toxicity *Not applicable*

STOT (single / repeated exposure) *Not applicable*

Aspiration hazard *Not applicable*

11.2 Information on other hazards

This product does not contain any known or suspected endocrine disruptors.

SECTION 12

Ecological information

12.1 Toxicity

Not applicable

12.2 Persistence and degradability

Not applicable

12.3 Bioaccumulative potential

Not applicable

12.4 Mobility in soil

Not applicable

12.5 Results of PBT and vPvB assessment

Not applicable

12.6 Endocrine disrupting properties

See Section 11.2.

12.7 Other adverse effects

No data available

SECTION 13

Disposal considerations

13.1 Waste treatment methods

Dispose of in accordance with local/national regulations

SECTION 14

Transport information

14.1 UN number or ID number

Not applicable

14.2 UN proper shipping name

Not dangerous goods

14.3 Transport hazard class(es)

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not environmentally hazardous; not a marine pollutant.

14.6 Special precautions for user

Special precautions for user *Not applicable*

Transport category *Not applicable*

Tunnel code *Not applicable*

Packing instruction (ADR) *Not applicable*

Packing instruction (IMDG) *Not applicable*

14.7 Maritime transport in bulk according to IMO instruments

No data available

SECTION 15

Regulatory information

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

Substance-specific regulations (e.g. licences) *Not applicable*

REACH code Y110

ECHA notification *Not applicable*

15.2 Chemical safety assessment

Not required

SECTION 16

Other information

Revision notes / other information *Not applicable*

This Safety Data Sheet was generated automatically from the data Molekula holds against this product, in the 16-section GHS/CLP format. Fields shown as "No data available" carry no recorded value; fields shown as "Not applicable" were assessed as not relevant to this substance. For queries, contact Molekula at info@molekula.com.