

# 3-BROMO-3-BUTEN-1-OL

SAFETY DATA SHEET (according to Regulation (EC) No. 1907/2006/EC)

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# SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers

Product name: 3-Bromo-3-buten-1-ol EC number:

CAS-No.: 76334-36-6 Product Code: GEO-00401

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

Identified uses: Laboratory chemicals, Manufacture of substances

#### 1.3 Details of the supplier of the safety data sheet:

Georganics Ltd., Koreničova 1, 811 03 Bratislava, Slovak Republic

Phone Number: +421 33 6403132, E-mail address: georganics@georganics.sk

1.4 Emergency telephone number: National Toxicological Information Centre, Tel: +421-2-54774166, Mob: +421 911 166 066

#### **SECTION 2 - HAZARDS IDENTIFICATION**

#### 2.1 Classification of the substance or mixture

### 2.1.1 Classification according to Regulation (EC) No 1272/2008 (CPL)

Acute toxicity, Oral (Category 4), H302 Serious eye damage (Category 1), H318 Skin sensitization (Category 1), H317

### **2.1.2** Additional information: For full text of Hazard- and EU Hazard-statements: see SECTION 16.

### 2.2 Label elements

Labelling according Regulation (EC) No 1272/2008

Hazard pictogram:

**Hazard statements:** 

H302-Harmful if swallowed.

H317-May cause an allergic skin reaction.

H318-Causes serious eye damage.

Signal word: **Precautionary statements:** 

Danger P261-Avoid breathing dust/fume/gas/mist/vapours/spray.

P280-Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312-IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

P302+P352-IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338-IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

Supplemental Hazard information (EU): Not applicable

2.3 Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic

(PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### **SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS**

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|   |   |   |   |   |   |   |   |   |   |   |   |   |   |

| Identification<br>numbers | Substance name       | Concentration | Classification<br>according to<br>Regulation (EC) No<br>1272/2008 | SCL / M-factor /<br>ATE |
|---------------------------|----------------------|---------------|---|-------------------------|
| CAS: 76334-36-6<br>EC:    | 3-Bromo-3-buten-1-ol | <= 100%       | H302;H317;H318  | -                       |

## **SECTION 4 - FIRST AID MEASURES**

# 4.1 Description of first aid measures

General notes Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with If swallowed

water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

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### **SECTION 5 - FIREFIGHTING MEASURES**

5.1 Extinguishing media

**Suitable extinguishing media:** Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable extinguishing media:

- **5.2 Special hazards arising from the substance or mixture -** During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion.
- **5.3** Advice for firefighters Wear self-contained breathing apparatus and protective clothing to prevent contact with skin/eyes.
- **5.4 Further information** Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

# SECTION 6 - ACCIDENTAL RELEASE MEASURES

- **6.1 Personal precautions, protective equipment and emergency procedures -** Wear protective equipment. Ensure adequate ventilation. Keep unprotected persons away. Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray. Wash spill site after material pickup is complete.
- **6.2 Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let this chemical enter the environment.
- **6.3 Methods and materials for containment and cleaning up** Spilled product should be covered with suitable (non-flammable) absorbing material. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

### **SECTION 7 - HANDLING AND STORAGE**

**7.1 Precautions for safe handling** – For precautions see section 2.2.

Wash thoroughly after handling. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation. Ensure adequate ventilation. Remove contaminated clothing and protective equipment before entering eating areas.

**7.2 Conditions for safe storage, including any incompatibilities** - Store in a dry, cool and well-ventilated place. Keep container closed when not in use. See Section 10 for stability and reactivity information. Keep refrigerated. Keep away from the light.

**7.3 Specific end use(s) -** No further relevant information available

### **SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

8.1 Control parameters

8.2 Exposure controls

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to control

airborne levels. Safety shower and eye bath.

**Personal Protective Equipment** 

**Eye and face protection:** Wear chemical safety glasses.

Skin protection: Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection: Wear appropriate protective mask with a filter against organic vapors.

Thermal hazard: No data available

**Environmental exposure controls:** Do not let product enter drains.

| SECTION 9 - PHYSICAL AND CHEMICAL PROPERTII |
|---|
|---|

| 9.1 Information on basic physical a | nd chemical properties |  |                   |
|-------------------------------------|------------------------|--|-------------------|
| Physical state:                     | Liquid                 | Decomposition temperature:                             | No data available |
| Color:                              | Clear light brown      | рН:  | No data available |
| Odor:                               | No data available      | Kinematic viscosity:                                   | No data available |
| Freezing/Melting Point:             | No data available      | Solubility:  | No data available |
| Boiling Point:                      | 68-69 °C               | Partition coefficient n-<br>octanol/water (log value): | No data available |
| Flammability:                       | No data available      | Vapor pressure:  | No data available |
| Lower and upper explosion limit:    | No data available      | Density and/or relative density:                       | No data available |
| Flash Point:                        | >110 °C                | Relative vapor density:                                | No data available |
| Auto-ignition temperature:          | No data available      | Particle characteristics:                              | No data available |
| 9.2 Other safety information - No d | ata available          |  | ·                 |

### **SECTION 10 - STABILITY AND REACTIVITY**

- 10.1 Reactivity No data available
- 10.2 Chemical stability The product is chemically stable under standard ambient conditions (room temperature)
- 10.3 Possibility of hazardous reactions No data available
- 10.4 Conditions to avoid Strong heating, light
- **10.5 Incompatible materials Strong oxidizing agents**
- 10.6 Hazardous decomposition products Carbon oxides, hydrogen bromide

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### **SECTION 11 - TOXICOLOGICAL INFORMATION**

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

Acute toxicity - No data available

Skin irritation or corrosion - Causes skin irritation

Serious eve damage / irritation - Causes serious eve irritation.

Respiratory or skin sensitization - No data available

Germ cell mutagenicity - No data available

Carcinogenicity - No data available

Reproductive toxicity - No data available

Specific target organ system toxicity (STOT) - repeated exposure: No data available

Specific target organ system toxicity (STOT) - single exposure: No data available

11.2 Additional Information - To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated. Other dangerous properties cannot be excluded. This substance should be handled with particular care.

### **SECTION 12 - ECOLOGICAL INFORMATION**

- 12.1 Toxicity No data available
- 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 and vPvB assessment** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
- 12.6 Endocrine disrupting properties No data available
- 12.7 Other adverse effects No data available
- 12.8 Additional information No data available

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

### 13.1 Waste treatment methods

Hand over to disposers of hazardous waste. Must be specially treated under adherence to official regulations. Consult state, local or national regulations for proper disposal. The product must not be disposed of with municipal waste.

# Contaminated packaging

| SECTION 14 - TRANSPORT INFORMATION |                     |                           |          |  |  |
|------------------------------------|---------------------|---------------------------|----------|--|--|
| 14.1 UN number:                    | ADR/RID: -          | IMDG: -                   | IATA: -  |  |  |
| 14.2 UN proper shipping name:      |                     |                           |          |  |  |
| ADR/RID: Not dangerous good        |                     |                           |          |  |  |
| IMDG: Not dangerous good           |                     |                           |          |  |  |
| IATA: Not dangerous good           |                     |                           |          |  |  |
| 14.3 Transport hazard class(es)    |                     |                           |          |  |  |
|                                    | ADR/RID: -          | IMDG: -                   | IATA: -  |  |  |
| 14.4 Packing group                 |                     |                           |          |  |  |
| 3 3 1                              | ADR/RID: -          | IMDG: -                   | IATA: -  |  |  |
| 14.5 Environmental hazards         |                     |                           |          |  |  |
|                                    | ADR/RID: no         | IMDG Marine pollutant: no | IATA: no |  |  |
| 14.6 Special precautions for user  | . No doto ovoiloble | •                         |          |  |  |

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

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Environmental Protection Act 1990 as amended. Clean Air Act 1993 as amended. Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

15.2 Chemical safety assessment - No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

### **SECTION 16 - OTHER INFORMATION**

### Key to abbreviations and acronyms used in the safety data sheet

ATE - Acute Toxicity Estimate

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment CSR - Chemical Safety Report

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EOS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW - see below)

GES - Generic Exposure Scenario GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes

(http://ec.europa.eu/environment/waste/framework/list.htm) LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of

Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous

Goods by Rail

RIP - REACH Implementation Project RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum SME - Small and Medium sized Enterprises STOT - Specific Target Organ Toxicity (STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UFI - Unique Formula Identifier

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

The information contained in the SDS are compiled according to the present knowledge of the manufacturer. It does not represent any guarantee of the properties of the product. SDS shall be used only as a guide. Georganics Ltd. is not liable for damages incurred in the handling or contact with chemicals.