

2-BROMOBENZOTHIAZOLE

TV DATA SHEET ($(EC) N_{0} = 1007/2006/EC)$ ъ

	SAFETY DATA SHEET	(according to Regulation (EC) No.	1907/2006/EC)	
Version 1.1, Revision: 1	7-09-2024		GEO-00390	Page 1/4
SECTION 1 - I	DENTIFICATION OF THE SUBS	STANCE/MIXTURE AND OF THE	COMPANY/UNDERTA	KING
1.1 Product identifiers				
Product name: 2-Br	omobenzothiazole	EC number:		
CAS-No.: 2516-40-	7	Product Code: GEO-0039	0	
1.2 Relevant identified	uses of the substance or mixture a	nd uses advised against		
Identified uses: La	poratory chemicals, Manufacture of s	substances		
1.3 Details of the supp	ier of the safety data sheet:			
Georganics Ltd., Ke	oreničova 1, 811 03 Bratislava, Slova	ak Republic		
Phone Number: +42	21 33 6403132, E-mail address: georg	ganics@georganics.sk		
		Information Centre, Tel: +421-2-5477	4166, Mob: +421 911 16	6 066
	SECTION 2	HAZARDS IDENTIFICATION		
2.1 Classification of th		HAZARDS IDENTIFICATION		
	ccording to Regulation (EC) No 12	77/2008 (CDI)		
Acute toxicity, Oral ((12/2008 (C1 L)		
Eye irritation (Catego				
Eye initiation (Calego	ly 2), H319			
For the full text of the	e H-Statements mentioned in this Sec	ction see Section 16		
T OF the full text of the	TI-Statements mentioned in this See	and the section ro.		
2.1.2 Additional info	rmation: For full text of Hazard- and	d EU Hazard-statements: see SECTION	N 16.	
2.2 Label elements				
	rding Regulation (EC) No 1272/2008	3		
Hazard pictogram:	Hazard statements:	·		
	H301-Toxic if swallowed.			
i l	H302-Harmful if swallowed.			
	H312-Harmful in contact with ski	in.		
	H315-Causes skin irritation.			
	H319-Causes serious eye irritation	n.		
Signal word:	H332-Harmful if inhaled.			
Danger	H335-May cause respiratory irrita	ation.		
	5 1 5			
	Precautionary statements:			
	P261-Avoid breathing dust/fume/	gas/mist/vapours/spray.		
		tective clothing/eye protection/face pro	otection.	
		Call a POISON CENTER or doctor/phy		
	P302+P352-IF ON SKIN: Wash v		, ,	
		Rinse cautiously with water for several	minutes. Remove contact	t lenses, if
	present and easy to do. Continue r			
	Supplemental Hazard informat			
2.3 Other hazards		no components considered to be either	persistent, bioaccumulativ	ve and toxic
		y bioaccumulative (vPvB) at levels of 0		

SECTION 3 - COMPOSITION, INFORMATION ON INGREDIENTS

3.1 Substances						
Identification numbers	on Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008	SCL / M- factor / ATE		
CAS: 2516-40 EC:	-7 2-Bromobenzothiazole	<= 100%	H301;H302;H312;H315;H319;H332;H335;	-		

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

SECTION 5 - FIREFIGHTING MEASURES

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5.1 Extinguishing media

Suitable extinguishing media: Water Foam Carbon dioxide (CO2) Dry powder

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. Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in an area accessible only to qualified or authorized persons.

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 PROPERTIES						
9.1 Information on basic physical and chemical properties						
Physical state:	Crystalline Powder	Decomposition temperature:	No data available			
Color:	Yellow	pH:	No data available			
Odor:	No data available	Kinematic viscosity:	No data available			
Freezing/Melting Point:	39-43 °С	Solubility:	No data available			
Boiling Point:	No data available	Partition coefficient n- 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 closed cup	Relative vapor density:	No data available			
Auto-ignition temperature:	No data available	Particle characteristics:	No data available			
9.2 Other safety information - No data 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.

10.5 Incompatible materials - Strong oxidizing agents, Strong bases, Strong acids

10.6 Hazardous decomposition products -

Acute toxicity - No data available Skin irritation or corrosion - Causes skin irritation Serious eye damage / irritation - Causes serious eye 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** Dispose of as unused product. **SECTION 14 - TRANSPORT INFORMATION** 14.1 UN number: ADR/RID: 2811 IMDG: 2811 IATA: 2811 14.2 UN proper shipping name: ADR/RID: TOXIC SOLID, ORGANIC, N.O.S. (2-Bromobenzothiazole) IMDG: TOXIC SOLID, ORGANIC, N.O.S. (2-Bromobenzothiazole) IATA: TOXIC SOLID, ORGANIC, N.O.S. (2-Bromobenzothiazole) 14.3 Transport hazard class(es) ADR/RID: 6.1 IMDG: 6.1 IATA: 6.1 14.4 Packing group IATA: III IMDG: III ADR/RID: III 14.5 Environmental hazards ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for user: No data available 14.7 Maritime transport in bulk according to IMO instruments - No data available

SECTION 11 - TOXICOLOGICAL INFORMATION

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

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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 (EC) 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 Kow - octanol-water partition coefficient ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road LC50 - Lethal Concentration to 50 % of a test population ADN - European Agreement concerning the International Carriage of Dangerous Goods by LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose) Inland Waterways CEN - European Committee for Standardisation LE - Legal Entity LoW - List of Wastes C&L - Classification and Labelling (http://ec.europa.eu/environment/waste/framework/list.htm) CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 LR - Lead Registrant CAS# - Chemical Abstracts Service number M/I - Manufacturer / Importer CMR - Carcinogen, Mutagen, or Reproductive Toxicant MS - Member States CSA - Chemical Safety Assessment MSDS - Material Safety Data Sheet CSR - Chemical Safety Report **OC** - Operational Conditions DNEL - Derived No Effect Level OECD - Organization for Economic Co-operation and Development DPD - Dangerous Preparations Directive 1999/45/EC OEL - Occupational Exposure Limit DSD - Dangerous Substances Directive 67/548/EEC OJ - Official Journal DU - Downstream User OR - Only Representative EC - European Community OSHA - European Agency for Safety and Health at work PBT - Persistent, Bioaccumulative and Toxic substance ECHA - European Chemicals Agency EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS) PEC - Predicted Effect Concentration EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway) PNEC(s) - Predicted No Effect Concentration(s) EEC - European Economic Community PPE - Personal Protection Equipment EINECS - European Inventory of Existing Commercial Substances (Q)SAR - Qualitative Structure Activity Relationship REACH - Registration, Evaluation, Authorisation and Restriction of ELINCS - European List of notified Chemical Substances Chemicals Regulation (EC) No 1907/2006 RID - Regulations concerning the International Carriage of Dangerous EN - European Standard Goods by Rail EOS - Environmental Quality Standard **RIP - REACH Implementation Project** EU - European Union RMM - Risk Management Measure Euphrac - European Phrase Catalogue SCBA - Self-Contained Breathing Apparatus EWC - European Waste Catalogue (replaced by LoW - see below) SDS - Safety data sheet GES - Generic Exposure Scenario SIEF - Substance Information Exchange Forum GHS - Globally Harmonized System SME - Small and Medium sized Enterprises IATA - International Air Transport Association STOT - Specific Target Organ Toxicity ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air (STOT) RE - Repeated Exposure IMDG - International Maritime Dangerous Goods (STOT) SE - Single Exposure IMSBC - International Maritime Solid Bulk Cargoes SVHC - Substances of Very High Concern IT - Information Technology UFI - Unique Formula Identifier IUCLID - International Uniform Chemical Information Database UN - United Nations IUPAC - International Union for Pure Applied Chemistry vPvB - Very Persistent and Very Bioaccumulative JRC - Joint Research Centre

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.