SAFETY DATA SHEET



1. Identification of Substance / Mixture

Product Identifier

Product Name Tetrabutylammonium bromide

Other NamesTBABProduct CodeIL-TBABCAS1643-19-2

MDL MFCD00011633

EINECS 216-699-2

REACH Registration Number

Relevant Uses Research and Development
Uses Advised Against No uses advised against.

Supplier Details

Company ISOMERLAB D.O.O.

Address TRZASKA CESTA 297A, SI-1000 LJUBLJANA SLOVENIA

Telephone +38640764332

Email INFO@ISOMERLAB.COM

Emergency Telephone 112

2. Hazards Identification

Classification Acute Tox. 4

Skin Irrit. 2 Eye Irrit. 2A Repr. 2

Aquatic Chronic 3

Signal Word WARNING

Pictograms

Precautions





Hazards H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H361 Suspected of damaging fertility or the unborn child. **H412** Harmful to aquatic life with long lasting effects.

P202 Do not handle until all safety precautions have been read and understood.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear face protection.

P301+P312 IF SWALLOWED: Call a doctor if you feel unwell.

P302+P352 IF ON SKIN: Wash with plenty of 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.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P321 Specific treatment.

P330 Rinse mouth.

P337+P313 If eye irritation persists: Get medical advice/attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage. **P405** Store locked up.

3. Composition of Ingredients

SUBSTANCE

Name CAS Einecs Composition Hazards

Tetrabutylammonium bromide 1643-19-2 216-699-2 <= 100%

H302 Acute Tox. 4 H315 Skin Irrit. 2 H319 Eye Irrit. 2A H361 Repr. 2 H412 Aquatic Chronic 3

4. First Aid Measures

Eye contactWhere Diphoterine is not available, rinse eyes with copious amounts of water for at least 20 minutes.

Ingestion Where Diphoterine is not available, rinse mouth with copious amounts of water. Seek urgent medical advice.

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. If victim begins to feel unwell,

seek urgent medical advice.

Skin Contact Where Diphoterine is not available, rinse skin with copious amounts of water for at least 20 minutes.

General Advice No additional advice.

Most Important Symptoms and Effects

No known symptoms or effects.

Immediate First Aid Measures No additional first aid measures required.

5. Fire Fighting Measures

Suitable Fire Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Fire Extinguishing Media No known unsuitable media.

Special Hazards Thermal decomposition can lead to release of irritating gases and vapours.

Advice for Fire Fighters As in any fire, wear self-contained breathing apparatus and full protective gear.

6. Accidental Release Measures

Personal Precautions

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate

ventilation. Keep personnel away from spill/leak.

Environmental Precautions Do not let product enter drains or waterways. Avoid discharge into the environment.

Containment - Methods and Materials Spill Response should only be carried out by trained or qualified personnel.

Referenced SDS Sections For personal protection see section 8. For disposal see section 13.

7. Handling and Storage

Personal Precautions

Safe Handling Wear appropriate personal protective equipment. Use only under a chemical fume hood ensuring adequate

ventilation, especially if dust, aerosol or fumes will be generated. Avoid contact with skin, eyes and clothing. For

precautions see section 2.2.

Protection Against Explosion and Fire Where possible, use anti static and spark proof equipment when handling.

General Occupational Hygiene Handle in accordance with good industrial hygiene and safety practice. Wash hands before and after use. Do not

eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use.

Conditions for Safe Storage and Incompatabilities

Managing Storage Risks

Keep container tightly closed and upright. Store in a cool, dry and well-ventilated place.

Storage Controls No special requirements

Maintaining Integrity

Keep container tightly closed in a cool area away from sunlight or heat sources.

Other Advice No other specific advice available.

Specific End Use(s)

No specific end uses are advised. The products supplied are for research purposes only.

8. Exposure Controls / Personal Protection

Control Parameters

Country	Info	Long Term (ppm)	Long Term (mgm3)	Short Term (ppm)	Short Term (mgm3)	Ceiling (ppm)	Ceiling (mgm3)	Other Unit	Remarks
Engineering Measures			proof	Use only under a chemical fume hood ensuring adequate ventilation, especially in confined areas. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location.					
Face Protection			Wear	Wear tightly fitting safety goggles which adhere to European standard EN 166. Ensure eye bath is to hand.					
Hand Proection			89/68 outer	Handle with impermeable gloves. Inspect gloves before use. Gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN374 derived from it. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.					
Skin Protection			stand	Wear appropriate protective clothing ensuring all skin is covered. Wear safety shoes that meet at least S1 standards. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.					
Respiratory Protection				Product should be handled in a fume cupboard with adequate extraction. No respiratory equipment is needed under normal use conditions.					
Hygiene Protection			Ensu	Ensure hair or skin particles cannot enter the chemical container.					
Environment Exposure Controls			Avoid	Avoid discharge into the environment, see section 6.2.					
9. Physical ar	nd Chemica	al Properties							
State			Solid						
Appearance			No da	ata available.					
Odour			No da	ata available.					
Odour Threshol	ld		No da	ata available.					
рН			5.12	at 29°C					
Melting Point / F	Freezing Poir	nt	102 t	o 106°C					
Initial Boiling Point			144.3	144.3°C					
Boiling Range			No da	ata available.					
Flash Point			76°C						
Evaporation Ra	te		No da	ata available.					
Flammability		No da	ata available.						
Upper / Lower F Limits	Flammability	or Explosion		ata available.					
Vapour Pressur	е			ata available.					
Vapour Density				No data available.					
Relative Density				0.5263g/cm3 at 30.5°C					
Solubility			-	600g/L at 20°C in Water					
Partion Coeffici				at 25°C ata available.					
Auto Ignition Temperature				No data available.					
Decomposition	Temperature)		ata available.					
Viscosity	autia a			ata available.					
Explosive Properties Oxidising Properties				No data available.					
Other information			No a	Iditional information	on available				
10. Stability a	and Reactiv	vity							
Reactivity			No kr	nown reactivity, ba	sed on information	available.			
Stability				•	nded storage condi				
Possibility of Ha	azardous Rea	actions	None	under normal sto	rage conditions.				
Conditions To Avoid			Exce	Excess heat. Exposure to moisture.					
Incompatible Ma			Stron Base	g oxidising agents s.	s.				

Hazardous Decomposition Products

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

In combustion emits toxic fumes of nitrogen oxides. In combustion emits toxic fumes of hydrogen bromide.

11. Toxicology Information

Acute Toxicity

Oral LD50, Rat, >300 - <2000mg/kg

Dermal LD50, Rat, >2000mg/kg

No. To de la constant a constant a facilità de la f

Skin Corrosion / Irritation No Toxicology data available for this product.

Serious Eye Damage / Irritation No Toxicology data available for this product.

Respiratory or Skin SensitisationNo Toxicology data available for this product.

Germ Cell Mutagenicity

No Toxicology data available for this product.

Carcinogencity No Toxicology data available for this product.

Reproductive Toxicity

No Toxicology data available for this product.

STOT-single Exposure No Toxicology data available for this product.

STOT-repeated Exposure No Toxicology data available for this product.

Aspiration Hazard No Toxicology data available for this product.

Additional Toxicology Information No Toxicology data available for this product.

12. Ecological Information

Toxicity Toxicity to fish:

Zebra fish (Danio rerio) LC50 - >100mg/l/96 h

Toxicity to aquatic invertebrates:
Daphnia magna EC50 - 98.1mg/l/48 h
Toxicity to aquatic algae and cyanobacteria:
Green alga Chlorella vulgaris EC50 - 204.7mg/l/72 h

Toxicity to aquatic plants other than algae: Lemna minor EC50 - 51.4mg/l/96 h

Persistence and Degradability

No Ecological data available for this product.

Bio-Accumulative Potential No Ecological data available for this product.

Mobility in Soil Log Pow: 0.839 at 25°C

Results of PBT and vPvB assessment

No Ecological data available for this product.

Endocrine Disrupting Properties Harmful to aquatic life with long lasting effects.

Other Adverse Effects No Ecological data available for this product.

13. Disposal Considerations

Disposal Operations Ensure product is disposed of by licensed waste carriers.

Disposal of Packaging

Ensure INNER PACKAGING is disposed of by licensed waste carriers. Some OUTER PACKAGING MAY be

recyclable if not contaminated.

14. Transport Information

This product is classified as non-hazardous for transport.

15. Regulatory Information

Regulatory Information As far as ISOMERLAB is aware, there are no further regulations controlling this product.

Chemical Safety Assessment available for this product.

16. Other Information

Information Not Covered in Other Sections

ADR: Accord Europeen sur le transport des merchandises Dangereuses par Route(European Agreement concerning the International Carriage of Dangerous Goods by road)

RID:Reglement International concernant le transport des merchandises dangereuses par chemin de fer

(Regulations concerning the International transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the International Air Transport Association ICAO:International Civil Aviation Organization

ICAO-TI: Technical Instructions by the ICAO

Revision

Date Modified

Disclaimer

GHS: Globally Harmonized System of Classification and Labelling of Chemicals CAS:Chemical Abstracts Service

8

23/12/2022

The product listed is for research and development purposes only and not for human or animal use. As such, in most cases, the toxicological, ecological and physicochemical properties have not been fully determined and the product should be treated with respect and always handled under suitable conditions by appropriately qualified personnel. The responsible party shall use this datasheet only in conjunction with other sources of information gathered by them, and should make an independent judgement of suitability, to ensure proper use and protect the health and safety of employees. This information is furnished without warranty and any use of the product not in conformance with this material safety data sheet, or in combination with any other product or process, is the responsibility of the user. This SDS adheres to Regulation (EC) No 1907/2006.