

	Bismu	th(III) tert-Per	ntoxide	Pricing >	
	Linear CurHasBiOs				
Formula Pubchem CID		101167057			
MDI		MFCD00151666			
		N/A			
IUPAC Name		bismuth; 2-methylbutan-2-olate			
SMILES		CCC(C)(C)[O-].CCC(C)(C)[O-].CCC(C)(C)[O-].[Bi+3]			
Inchl Identifier		InChI=1S/3C5H11O.Bi/c3*1-4-5(2,3)6;/h3*4H2,1-3H3;/q3*-1;+3			
Inchl Key DRFVTYL		DRFVTYUXJVLNI	NLR-UHFFFAOYSA-N		
	Signal Word		Warning		
	Hazard Statements		H228-H315-H319-H335		
	Hazard Codes		F, Xi		
	Risk Codes		N/A		
	Safety Statements		N/A		
	Transport Information		N/A		
	GHS Pictograms		GHS02 FI GHS07 Exclamat Point		

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SAFETY DATA SHEET

Date Accessed: 05/06/2024 Date Revised: 01/15/2022

SECTION 1. IDENTIFICATION

Product Identifiers: All applicable American Elements product codes for CAS #124687-44-1

Relevant identified uses of the substance:

Scientific research and development

Supplier details: American Elements 10884 Weyburn Ave. Los Angeles, CA 90024 Tel: +1 310-208-0551 Fax: +1 310-208-0351

Emergency telephone number: Domestic, North America +1 800-424-9300 International +1 703-527-3887

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No
1272/2008
GHS02 flame
Flam. Sol. 2 H228 Flammable solid.
GHS07
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
STOT SE 3 H335 May cause respiratory irritation.
Other hazards that do not result in classification No
data available
2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008
The substance is classified and labelled according to the CLP regulation.



Hazard pictograms GHS02 GHS07 Signal word Warning Hazard statements H228 Flammable solid. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice/attention. 2.3 Other hazards Results of PBT and vPvB assessment PBT: N/A vPvB: N/A

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 SubstancesCAS# Designation:124687-44-1 Bismuth(III) tert-pentyloxide

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures If inhaled: Supply patient with fresh air. If not breathing, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. Seek immediate medical advice. In case of skin contact: Instantly wash with water and soap and rinse thoroughly. Seek immediate medical advice. In case of eye contact: Rinse opened eye for several minutes under running water. Then consult doctor. If swallowed: Seek medical treatment. 4.2 Most important symptoms and effects, both acute and delayed: No data available 4.3 Indication of any immediate medical attention and special treatment needed: No data available

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media
Suitable extinguishing agents CO2, sand, extinguishing powder. Do not use water.
5.2 Special hazards arising from the substance or mixture
If this product is involved in a fire, the following can be released:
Carbon monoxide and carbon dioxide
Metal oxide
5.3 Advice for firefighters Protective equipment: Wear self-contained breathing apparatus. Wear full protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures Use personal protective equipment. Keep unprotected persons away. Ensure adequate ventilation Keep away from ignition sources 6.2 Environmental precautions: Do not allow material to be released to the environment without official permits. 6.3 Methods and materials for containment and cleanup: Keep away from ignition sources. Ensure adequate ventilation. Prevention of secondary hazards: Keep away from ignition sources. 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 Handle under dry protective gas. Keep containers tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation/exhaustion at the workplace. Information about protection against explosions and fires: Protect against electrostatic charges. 7.2 Conditions for safe storage, including any incompatibilities Requirements to be met by storerooms and containers: Store in cool location. Information about storage in one common storage facility: Store away from oxidising agents. Store away from water. Further information about storage conditions: Store under dry inert gas. This product is moisture sensitive. Avoid contact with air / oxygen. Keep container tightly sealed. Store in cool, dry conditions in well-sealed containers. Protect from humidity and keep away from water. 7.3 Specific end use(s) No data available

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Additional information about design of technical svstems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. 8.1 Control parameters Components with critical values that require monitoring at the workplace: Not required. Additional information: No data 8.2 Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures should be adhered to in handling the chemicals. Keep away from foodstuffs, beverages and food. Instantly remove any soiled and impregnated garments. Wash hands during breaks and at the end of the work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use breathing protection with high concentrations. Protection of hands: Inspect gloves prior to use. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Material of gloves Impervious gloves Eye protection: Safety glasses Face protection Body protection: Protective work clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties
Appearance:
Form: Powder
Colour: White
Smell: No data available
Odor threshold: No data available.
pH: N/A

Melting point/Melting range: 180 °C (dec) Boiling point/Boiling range: No data available Sublimation temperature / start: 63 °C (@ 0.0001mm Hg) Flash point: N/A Inflammability (solid, gas) Highly flammable. Ignition temperature: No data available Decomposition temperature: No data available Self-inflammability: No data available. Danger of explosion: No data available. Critical values for explosion: Lower: No data available Upper: No data available Steam pressure: N/A Density No data available Relative density No data available. Vapor density N/A Evaporation rate N/A Solubility in / Miscibility with Water: Reacts Partition coefficient (n-octanol/water): No data available. Viscosity: Dynamic: N/A Kinematic: N/A 9.2 Other information No data available

SECTION 10. STABILITY AND REACTIVITY

10.1 Reactivity No data available 10.2 Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: No decomposition if used and stored according to specifications. 10.3 Possibility of hazardous reactions Reacts with water 10.4 Conditions to avoid No data available 10.5 Incompatible materials: Oxidising agents Air Water/moisture 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide Metal oxide Inflammable gases/Vapors

SECTION 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: Causes skin irritation. Eye irritation or corrosion: Causes serious eye irritation. Sensitization: No sensitizing effect known. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: No effects known. Specific target organ system toxicity - repeated exposure: No effects known. Specific target organ system toxicity - single exposure: May cause respiratory irritation. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic 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 Additional ecological information: Do not allow material to be released to the environment without official permits. Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities to reach groundwater, water courses, or sewage systems. Avoid transfer into the environment. 12.5 Results of PBT and vPvB assessment PBT: N/A vPvB: N/A 12.6 Other adverse effects No data available

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methodsRecommendationHand over to disposers of hazardous waste.Must be specially treated under adherence to official regulations.

Consult official regulations for proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

UN-Number ADR, IMDG, IATA UN3181 14.2 UN proper shipping name ADR 3181 METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S. (Bismuth(III) tert-pentyloxide) IMDG, IATA METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S. (Bismuth(III) tert-pentyloxide) 14.3 Transport hazard class(es) ADR Class 4.1 (F3) Flammable solids, self-reactive substances and solid desensitised explosives. Label 4.1 IMDG, IATA Class 4.1 Flammable solids, self-reactive substances and solid desensitised explosives. Label 4.1 Packing group ADR, IMDG, IATA III 14.5 Environmental hazards: N/A 14.6 Special precautions for user Warning: Flammable solids, self-reactive substances and solid desensitised explosives. Kemler Number: 48 EMS Number: F-A,S-I Segregation groups Heavy metals and their salts (including their organometallic compounds) 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code N/A Transport/Additional information: ADR Excepted quantities (EQ): E1 Limited quantities (LQ) 5 kg Transport category 3 Tunnel restriction code E UN "Model Regulation": UN3181, METAL SALTS OF ORGANIC COMPOUNDS, FLAMMABLE, N.O.S. (Bismuth(III) tert-pentyloxide), 4.1, III

SECTION 15. REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Australian Inventory of Chemical Substances Substance is not listed. Standard for the Uniform Scheduling of Drugs and Poisons Substance is not listed. National regulations Information about limitation of use: For use only by technically qualified individuals. Employment restrictions concerning young persons must be observed. Water hazard class: Water hazard class 1 (Selfassessment): slightly hazardous for water. Other regulations, limitations and prohibitive regulations ELINCS (European List of Notified Chemical Substances) Substance is not listed. Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH). The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. American Elements shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale. COPYRIGHT 1997-2022 AMERICAN ELEMENTS. LICENSED GRANTED TO MAKE UNLIMITED PAPER COPIES FOR INTERNAL USE ONLY.

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