

Revision number: 1 Revision date: 08/01/2022

# TCI AMERICA SAFETY DATA SHEET

1. IDENTIFICATION		
Product name: Product code:	Bismuth(III) Oxide B6309	
Product use: Restrictions on use:	For laboratory research purposes. Not for drug or household use.	
Company: TCI America 9211 N. Harborgate Street Portland, OR 97203 U.S.A. Telephone: +1-800-423-8616 / +1-503-283-1681 Fax: +1-888-520-1075 / +1-503-283-1987 e-mail: sales-US@TCIchemicals.com www.TCIchemicals.com		Emergency telephone number: Chemical Emergencies: TCI America (8:00am - 5:00pm) PST +1-503-286-7624 Transportation Emergencies: Chemtrec 24-Hour +1-800-424-9300 (U.S.A.) +1-703-527-3887 (International) Responsible department: TCI America Environmental Health Safety and Security +1- 503-286-7624
2. HAZARD(S) IDENTIFICATION		
OSHA Haz Com: CFR 1910.1200: WHMIS 2015:	Specific Target Organ Toxicity (Single Exposure) [Category 1] Specific Target Organ Toxicity (Repeated Exposure) [Category 1]	
Signal word:	Danger!	
Hazard Statement(s):	Causes damage to: Nervous System Kidney Bone Causes damage to organs through prolonged or repeated exposure: Nervous System Kidney Bone	
Pictogram(s) or Symbol(s):		
Precautionary Statement(s): [Prevention] [Response] [Storage] [Disposal]	Do not breathe dust, fume, mist, vapors or spray. Do not eat, drink or smoke when using this product. Wash hands and face thoroughly after handling. If exposed: Call a poison center or doctor. Store locked up. Dispose of contents and container in accordance with local, regional, national regulations (e.g. US: 40 CFR Part 261, EU:91/156/EEC, JP: Waste Disposal and Cleaning Act, etc.).	
Hazards not otherwise classified: [HNOC]	None.	

# 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Components: Percent: CAS RN: Molecular Weight: Chemical Formula:	
Chemical Formula:	
Synonyms:	

Substance Bismuth(III) Oxide >99.5% 1304-76-3 465.96 Bi<sub>2</sub>O<sub>3</sub> Dibismuth Trioxide

4. FIRST-AID MEASURES		
H. HINGT AID MENSORES		
Description of first aid measures Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON	
	CENTER or doctor/physician.	
Skin contact:	Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Call a POISON CENTER or doctor/physician.	
Eye contact:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.	
Ingestion:	Call a POISON CENTER or doctor/physician. Call a POISON CENTER or doctor/physician. Rinse mouth.	
Symptoms/effects:		
Acute:	No data available	
Delayed:	No data available	
Indication of any immediate medical att	ention:	
Not available.		
Notes to physician: No data available		
5. FIRE-FIGHTING MEASURES		
S. TIKE-HOITING MEASURES		
Suitable extinguishing media:	Dry chemical, foam, water spray, carbon dioxide.	
Hazardous combustion products:	None	
Other specific hazards:	Closed containers may explode from heat of a fire.	
Advice for firefighters:	Wear self-contained breathing apparatus if possible.	
6. ACCIDENTAL RELEASE MEASU	RES	
Personal precautions, protective equipment and emergency procedures: Environmental precautions: Methods and materials for containment and cleaning up:	Prevent product from entering drains.	
7. HANDLING AND STORAGE		
Precautions for safe handling:	Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling.	
	Use a closed system if possible. Use a local exhaust if dust or aerosol will be generated.	
Conditions for safe storage including a	Avoid contact with skin, eyes and clothing.	
Conditions for safe storage, including a Storage conditions:	Keep container tightly closed. Store in a cool and dark place.	
5	Store locked up.	
Packaging material:	Store away from incompatible materials such as oxidizing agents. Comply with laws.	
8. EXPOSURE CONTROLS / PERSO	DNAL PROTECTION	
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Appropriate engineering controls:	Follow safe industrial engineering/laboratory practices when handling any chemical. Install a closed system or local exhaust. Also install safety shower and eye bath.	
Personal protective equipment		
Respiratory protection:	Dust respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators	
Hand protection:	approved under appropriate government standards and follow local and national regulations. Impervious gloves.	
Eye protection:	Safety goggles. A face-shield, if the situation requires.	
Skin and body protection:	Impervious protective clothing. Protective boots, if the situation requires.	

**TCI AMERICA** 

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C): Colour: Odour: Odor threshold: Odour threshold:	Solid Yellow No data available No data available No data available		
Melting point/freezing point: Boiling point/range: Decomposition temperature: Relative density: Kinematic viscosity: Log Pow:	825°C No data available No data available No data available No data available No data available	pH: Vapour pressure: Vapour density: Dynamic Viscosity: Evaporation rate(Butyl	No data available No data available. No data available No data available No data available
Flash point: Flammability(solid, gas):	No data available No data available	Acetate=1): Autoignition temperature: Flammability or explosive limits: Lower:	No data available No data available
Solubility(ies): [Water] [Other solvents]	No data available No data available	Upper:	No data available
10. STABILITY AND REACT	Ινιιγ		

**Reactivity:** Chemical stability: Possibility of hazardous reactions: Incompatible materials: Hazardous decomposition products: No data available Stable under proper conditions. No special reactivity has been reported. Oxidizing agents Carbon monoxide, carbon dioxide etc

# 11. TOXICOLOGICAL INFORMATION

#### RTECS Number: EB2984460

Acute Toxicity: orl-mus LD50:10 g/kg

Skin corrosion/irritation: No data available

Serious eye damage/irritation: No data available

Respiratory or skin sensitization: No data available

Germ cell mutagenicity: No data available

Carcinogenicity: No data available

> IARC: No data available

**Reproductive toxicity:** 

No data available

Target organ(s):

Causes damage to: Nervous System Kidney Bone

Causes damage to organs through prolonged or repeated exposure: Nervous System Kidney Bone

NTP:

No data available

OSHA:

No data available

## 12. ECOLOGICAL INFORMATION

Ecotoxicity: Fish: Crustacea: Algae:	No data available No data available No data available
Persistence / degradability: Bioaccumulative potential(BCF): Mobility in soil	No data available No data available
Log Pow: Soil adsorption (Koc): Henry's Law (PaM ³/mol):	No data available No data available No data available
13. DISPOSAL CONSIDERATIONS	
Disposal of product:	Recycle to process if possible. It is the generator's responsibility to comply with Federal, State and Local rules and regulations. You may be able to dissolve or mix material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber system. This section is intended to provide assistance but does not replace these laws, nor does compliance in accordance with this section ensure regulatory compliance according to the law. US EPA guidelines for Identification and Listing of Hazardous Waste are listed in 40 CFR Parts 261. The product should not be allowed to enter the environment, drains, water ways, or the soil.
Disposal of container: Other considerations:	Dispose of as unused product. Do not re-use empty containers. Observe all federal, state and local regulations when disposing of the substance.
14. TRANSPORT INFORMATION	
DOT (US)	Non-hazardous for transportation.

DOT (US)	Non-hazardous for transportation.
IATA_	Non-hazardous for transportation.
IMDG	Non-hazardous for transportation.

## **15. REGULATORY INFORMATION**

### Toxic Substance Control Act (TSCA 8b.):

This product is NOT on the EPA Toxic Substances Control Act (TSCA) inventory. The following notices are required by 40 CFR 720.36 (C) for those products not on the inventory list:

(i) These products are supplied solely for use in research and development by or under the supervision of a technically qualified individual as defined in 40 CFR 720.0 et sec.

(ii) The health risks of these products have not been fully determined. Any information that is or becomes available will be supplied on a SDS sheet.

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#### **US Federal Regulations**

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CERCLA Hazardo	ous substance and R		
SARA 313:		Not Listed	
SARA 302:		Not Listed	
State Regulation	5		
State Right-to-Kn			
Massachuse		Not Listed	
New Jersey		Not Listed	
Pennsylvania	a	Not Listed	
California Propos	sition 65:	Not Listed	
Other Information	n		
NFPA Rating:	-		HMIS Classification:
Health:	0		Health:
Flammability:	0		Flammability:
Instability:	0		Physical:
International Inve	entories		
Canada: DSL		On DSL	
EC-No:		215-134-7	

#### 16. OTHER INFORMATION

#### Revision date: 08/01/2022 Revision number: 1

TCI chemicals are for research purposes only and are NOT intended for use as drugs, food additives, households, or pesticides. The information herein is believed to be correct, but does not claim to be all inclusive and should be used only as a guide. Neither the above named supplier nor any of its affiliates or subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All chemical reagents must be handled with the recognition that their chemical, physiological, toxicological, and hazardous properties have not been fully investigated or determined. All chemical reagents should be handled only by individuals who are familiar with their potential hazards and who have been fully trained in proper safety, laboratory, and chemical handling procedures. Although certain hazards are described herein, we can not guarantee that these are the only hazards which exist. Our SDS are based only on data available at the time of shipping and are subject to change without notice as new information is obtained. Avoid long storage periods since the product is subject to degradation with age and may become more dangerous or hazardous. It is the responsibility of the user to request updated SDS for products that are stored for extended periods. Disposal of unused product must be undertaken by qualified personnel who are knowledgeable in all applicable regulations and follow all pertinent safety precautions including the use of appropriate protective equipment (e.g. protective goggles, protective clothing, breathing equipment, face mask, fume hood). For proper handling and disposal, always comply with federal, state and local regulations.