

## BI SMUTH OXYCHLORIDE

### Material Safety Data Sheet (MSDS)

#### 1. PRODUCT IDENTIFICATION

Product Name: bismuth oxychloride  
 INCI Name: bismuth chloride oxide  
 Synonyms: none  
 CAS Number: 7787-59-9  
 EINECS Number: 232-122-7  
 Origin: synthetic

#### 2. PHYSICAL & CHEMICAL PROPERTIES

Melting Point: not applicable  
 Boiling Point: not applicable  
 Vapor Pressure, mmHg: not applicable  
 Vapor Density, Air= 1: not applicable  
 Evaporation Rate: not applicable  
 Density: 7.72g/cm<sup>3</sup>  
 Solubility in water: insoluble  
 pH Value: approx. 6 (10% solution)  
 Appearance & Odor: fine, white crystalline powder, no odor

#### 3. STABILITY & REACTIVITY

Chemical Stability: stable under normal conditions  
 Incompatibility: none known  
 Hazardous Decomposition Products: hydrogen chloride (HCl)  
 Hazardous Polymerisation: will not occur

#### 4. HANDLING & STORAGE

Avoid contact with eyes. Wash thoroughly after handling. As with all chemicals, good industrial hygiene practices should be followed when handling this material.  
 Avoid freezing or excessive heat. Do not handle or store near an open flame, heat or other sources of ignition. Keep the container tightly closed and in a cool, well-ventilated place.

#### 5. ACCIDENTAL RELEASE MEASURES

Isolate spill area immediately. Keep unauthorized personnel away. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Prevent entry into waterways, sewers, basements or confined areas. Surface may become slippery after spillage. Use vacuum or broom sweeping and remove to disposal container. If damp, flush with water.

#### 6. EXPOSURE CONTROLS & PERSONAL PROTECTION

Respiratory Protection: No specific protective measures necessary.  
 Protective Clothing: Gloves recommended to prevent prolonged skin contact. Safety glasses, goggles, or face shield recommended for eye protection.  
 Other Protective Measures: Employees must practice good personal hygiene, washing exposed areas of skin several times daily and laundering contaminated clothing before re-use.

#### 7. HAZARDS IDENTIFICATION

General: Relatively non hazardous and non combustible.  
 Inhalation: May cause slight irritation to the upper respiratory tract.

Eye Contact: May cause irritation. Irrigate eye with water for at least 15 to 20 minutes. Seek medical attention if symptoms persist.  
 Skin Contact: Not expected to be a primary skin irritant; but prolonged exposure may cause slight irritations  
 Ingestion: No specific hazard known

#### 8. FIRST AID MEASURES

Eyes: Irrigate eyes with a heavy stream of water for at least 15 to 20 minutes. If irritation persists get medical attention.  
 Skin: Wash exposed areas of the body with soap and water.  
 Inhalation: Remove from area of exposure. If breathing is difficult, give oxygen. Seek medical attention if symptoms persist.  
 Ingestion: Give one or two glasses of water to drink. If gastrointestinal symptoms develop, consult medical personnel.

#### 9. FIRE FIGHTING MEASURES

Flammability Limits: None known  
 Unusual Fire Hazard: None known  
 Fire Fighting Procedures: Firefighters should wear full fire-fighting turn-out gear (full Bunker gear) including NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

#### 10. TOXICOLOGICAL INFORMATION

Acute Toxicity: LD50 22 g/kg (oral, rats)  
 Chronic Toxicity: Bismuth and bismuth compounds are poorly absorbed in the gastrointestinal tract. Should absorption by chronic ingestion occur, however, exposure may cause loss of appetite, headache, skin rash, exodermatitis, jaundice, kidney injury, black spots on the gum and salivation.

#### 11. DISPOSAL CONSIDERATIONS

Storage and disposal must be in accordance with applicable local, state & federal disposal regulations. Characterization and compliance with applicable laws are the responsibility solely of the generator.

#### 12. TRANSPORT INFORMATION

General: Not a hazardous material for transportation  
 DOT Shipping Name / Hazard Class: Not Restricted  
 ADR/ R I C Code / Hazard Class: Not Restricted  
 Sea Transport IMDG Code / Hazard Class: Not Restricted  
 Air Transport IATA Code / Hazard Class: Not Restricted

#### 13. DISCLAIMER

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.

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