



COLUMBUS CHEMICAL INDUSTRIES INC.

P.O. BOX 8
COLUMBUS, WISCONSIN 53925-0008
(920) 623-2140
FAX (920) 623-2577

Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910 1200. Standard must be consulted for specific requirements

U.S. Department of Labor

Occupational Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (as Used on Label and List)

Bismuth Metal

Note: Blank spaces are not permitted. If any item is not applicable or no information is available, the space must be marked to indicate that.

Section I

Manufacturers /Distributor Address Number Street City State and Zip Code

Columbus Chemical Industries

P.O. Box 8, N4335 Temkin Rd.

Columbus, WI 53925-0008

Emergency Telephone Number

CHEMTREC 1-800-424-9300

Telephone Number for Information

920-623-2140

Date Prepared

8-21-2006

Signature of Preparer (optional)

Section II - Hazardous Ingredients/Identity Information

Table with 6 columns: Hazardous Components (Specific Chemical Identity, Common Name(s)), CAS #, OSHA PEL, ACGIH TLV, Other Limits Recommended, % (optional). Row 1: Bismuth metal, 7440-69-9, Not Available, Not Available, Not Available.

Section III - Physical/Chemical Characteristics

Table with 4 columns: Property, Value, Property, Value. Rows: Boiling Point (1560°C/2840°F), Specific Gravity (H2O = 1) (Not Available), Vapor Pressure (mm Hg) (Not Available), Melting Point (271°C (520°F)), Vapor Density (AIR = 1) (Not Available), Evaporation Rate (Butyl Acetate = 1) (Not Available).

Solubility in Water

Insoluble

Appearance and Odor

solid

Section IV Fire and Explosion Hazard Data

Table with 4 columns: Flash Point (Method Used), Flammable Limits, LEL, UEL. Row 1: non-flammable, Not Applicable, Not Applicable, Not Applicable.

Extinguishing Media

Use extinguishing media appropriate for surrounding fire.

Special Fire Fighting Procedures

In the event of a fire, wear full protective clothing and NIOSH/MSHA-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

Unusual Fire and Explosion Hazards

Emits toxic fumes under fire conditions.

**Section V Reactivity Data**

Stability	Unstable		Conditions to Avoid	Unknown
	Stable	X		

**Incompatibility Materials to Avoid**

Unknown

**Hazardous Decomposition or Byproducts**

Unknown

**Hazardous Polymerization****Conditions to Avoid**

	May Occur		No known conditions
	Will Not Occur	X	

**Section VI Health Hazard Data****Routes of Entry****Inhalation ?****Skin ?****Ingestion ?**

	Yes	Yes	Yes
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**Health Hazards (Acute and Chronic)**

Skin and eye irritant. Inhalation causes irritation to the upper respiratory tract may cause difficulty in breathing, shortness of breath. Ingestion may be harmful, can cause digestive tract irritation and pain.

**Carcinogenicity****NTP****IARC Monographs****OSHA REGULATED?**

	Not Listed	Not Listed	Not Listed
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**Signs and Symptoms of Exposure.**

Large Exposure: Dizziness, Abdominal Cramps, Vomiting, Bloody Diarrhea, Weakness, difficulty breathing, ringing in the ears. Small Exposure: Weakness, General Depression, Headache, Menal impairment, sneezing, coughing.

**Medical Conditions Generally Aggravated by Exposure**

n/a

**Emergency and First Aid Procedures**

**INGESTION:** If swallowed, call a physician immediately, DO NOT INDUCE VOMITING. Do not leave victim unattended. **EYES:** In case of contact, immediately flush with large amounts of water for at least 15 minutes. Call physician. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call physician. **SKIN:** Immediately wash skin with soap and lwater.

**Section VII Precautions for Safe Handling and Use****Steps to be Taken in Case Material is Released or Spilled**

Wear glasses, chemical resistant gloves, apron and dust mask if necessary.

Do not touch material. Sweep up avoid creating dust and place into clean container for disposal.

**Waste Disposal Method**

Observe all Federal, State, and Local regulations when disposing of this material. Disposal

must comply with standards applicable to generators of hazardous waste.

**Precautions to be Taken in Handling and Storing**

Avid getting on skin, clothing, or in eyes. Avoid breathing dusts. Keep out of reach of children.

store in a cool, dry place.

**Other Precautions**

Containers, even when empty, will retain residue and vapors. Always obey hazard warnings and handle empty containers as if they were full.

**Section VII Control Measures****Respiratory Protection (Specify Type)**

Normally, none are needed, use dust mask if conditions warrant.

**Ventilation****Local Exhaust**

Recommended

**Special**

Eye wash station

**Mechanical (General)**

N/A

**Other**

Safety Shower

**Protective Gloves**

Appropriate chemical-resistant gloves.

**Eye Protection**

Safety glasses

**Other Protective Clothing or Equipment**

Apron or lab coat.

**Work /Hygienic Practices**

Do NOT get on skin, clothing, or in eyes. Avoid breathing, Store in cool, dry place . Avoid contact with flammable materials. Avoid storing with combustibile materials. Keep out of reach of children.