



MATERIAL SAFETY DATA SHEET
COMPLIES WITH 29 CFR 1910.1200.
OSHA HAZARD COMMUNICATION RULE

DATE OF LAST REVISION: 06-24-97

CHEMICAL IDENTITY

LABEL IDENTITY	BISMUTH TRIOXIDE
FORMULA	Bi₂O₃
CHEMICAL FAMILY	ELEMENT
HAZARDOUS INGREDIENTS	NONE LISTED

PHYSICAL AND CHEMICAL PROPERTIES

COLOR, FORM AND ODOR	Yellow powder, Odorless
PHYSICAL STATE	Powder
BOILING POINT	3430°F
VAPOR DENSITY	NA
VAPOR PRESSURE	NA
% VOLATILE BY VOLUME (%)	NA
FREEZING POINT	NA
EVAPORATION RATE (H ₂ O=1)	NA
SOLUBILITY IN WATER	NA
MELTING POINT	1580°F
pH	NA
MOLECULAR WEIGHT	NA
SPECIFIC GRAVITY	8.5
VISCOSITY	NA

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NF
FLAMMABLE LIMITS	Non-flammable
EXTINGUISHING MEDIA	NF
SPECIAL FIRE FIGHTING PROCEDURES	Use sufficient local exhaust to reduce any dust
UNUSUAL FIRE & EXPLOSION HAZARDS	Not flammable, no flash point, No fire or explosion hazard
FIRE FIGHTING EQUIPMENT	Use NIOSH approved dust mask respirator under appropriate OSHA standards and regulations.



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HEALTH HAZARD INFORMATION

POTENTIAL HEALTH EFFECTS	INHALATION:	Dust may irritate throat
	SKIN:	NA
	INGESTION:	No known adverse effects ingestion not advised
	EYE:	Dust may irritate eyes
	CHRONIC EFFECTS/ CARCINOGENICITY	Not carcinogen
	TERATOLOGY (BIRTH DEFECT)	NA
	REPRODUCTION INFORMATION	NA

CARCINOGENICITY: **None** NTP: **No** IARC MONOGRAPHS: **NO** OSHA REGULATE: **NO**

EMERGENCY FIRST AID PROCEDURES:

INGESTION: **Obtain first aid or medical assistance if needed. Drink large amounts of water.**

INHALATION: **Remove to fresh air, apply artificial respiration as needed, obtain first aid or medical assistance.**

SKIN CONTACT: **Obtain first aid or medical assistance if needed. Flush contact area with water.**

EYE CONTACT: **Wash with large amounts of water, obtain first aid medical assistance if needed.**

REACTIVITY DATA

STABILITY	Stable
INCOMPATIBILITY (MATERIALS TO AVOID)	NF
HAZARDOUS DECOMPOSITION PRODUCTS	Will Not Occur
HAZARDOUS POLYMERIZATION	Will Not Occur



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SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: **Use dustless methods - vacuum and place into closable container for disposal, or flush with water. Do not dry sweep. Wear proper protective equipment.**

WASTE DISPOSAL METHOD: **Dispose of in accordance with local, state and federal regulations.**

SPECIAL PROTECTIVE INFORMATION

RESPIRATORY PROTECTION	Wear approved dust respirators/masks
LOCAL EXHAUST	Fume hood if dust or fumes are produced
MECHANICAL (general)	NA
SPECIAL	NA
OTHER	A source of clean water should be available to flush eyes/skin
PROTECTIVE GLOVES	Gloves recommended
EYE PROTECTION	Protect from dust particles
OTHER PROTECTIVE EQUIPMENT	Wear proper personal protective equipment

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING/STORAGE:
Store in cool, dry area avoiding contact with fumes or hot surfaces.

TRANSPORTATION REQUIREMENTS	DOT CLASS:	Not Classified
	UN NUMBER:	NC
	IMCO CLASS:	NC
	OTHER:	---

PRECAUTIONARY LABELING **NONE**

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NA = NOT APPLICABLE

ND = NO DATA

NC = NOT CLASSIFIED