

XI'AN FUNCTION MATERIAL GROUP CO., LTD Material Safety Data Sheet Bismuth triiodide

1. Product and Company Identification	
Trade Name:	Bismuth triiodide
Chemical Formula: Recommended Use:	Bil ₃ Scientific research and development
Recommended Use.	Scientific research and development
Manufacturer/Supplier:	XI'AN FUNCTION MATERIAL GROUP CO., LTD
Street:	No. 69, Gazelle Valley, High-Tech Zone
City:	XI'AN
State:	Shannxi
Zip Code:	710077
Country:	China
Tel #:	+86-29-88993870/+86-13519132051
	2. Hazards Identification
Signal Word:	Danger
Hazard Statements:	H314: Causes severe skin burns and eye damage.
Precautionary Statements:	P260: Do not breathe dust or mist.
recautionary statements.	P264: Wash skin thoroughly after handling.
	P280: Wear protective gloves/ protective clothing/ eye protection/ face
	protection.
	P301+P330+P331: IF SWALLOWED: Rinse mouth. Do NOT induce
	vomiting.
	P303+P361+P353: IF ON SKIN (or hair): Remove/ Take off
	immediately all contaminated clothing. Rinse skin with water/ shower.
	P304+P340: IF INHALED: Remove victim to fresh air and keep at rest
	in a position comfortable for breathing.
	P305+P351+P338: IF IN EYES: Rinse cautiously with water for
	several minutes. Remove contact lenses, if present and easy to do.
	Continue rinsing.
	P363: Wash contaminated clothing before reuse.
	P405: Store locked up.
	P501: Dispose of contents/ container to an approved waste disposal plant.
HMIS Health Ratings (0-4):	
Health:	3
Flammability:	0
Physical:	2
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3. Composition		
Chemical Family:	Nonmetal	
Additional Names:	Bismuth (III) iodide	
Bismuth triiodide (BiI ₃):		
Percentage:	100 wt%	
CAS #:	7787-64-6	
EC #:	232-127-4	
	4. First Aid Procedures	
General Treatment:	Seek medical attention if symptoms persist.	
Special Treatment:	None	
Important Symptoms:	None	
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult. Keep patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any	
	contaminated clothing. Seek immediate medical attention.	
Eyes:	Flush eyes with water, blinking often for several minutes. Remove	
	contact lenses if present and easy to do. Continue rinsing. Seek	
	immediate medical attention.	
	5. Firefighting Measures	
Flammability:	Non-flammable	
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for	
	surrounding material and type of fire.	
Spec. Fire Fighting Procedure:	Use full-face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. See section 10 for	
	decomposition products.	
	6. Accidental Release Measures	
If Material Is Released/Spilled:	Wear appropriate respiratory and protective equipment specified in	
	special protection information. Keep unprotected persons away. Isolate	
	spill area and provide ventilation. Use neutralizing agent. Vacuum up	
	spill using a high efficiency particulate absolute (HEPA) air filter and	
	place in a closed container for disposal. Take care not to raise dust.	
Environmental Precautions:	Isolate runoff to prevent environmental pollution.	
	7. Handling and Storage	
Handling Conditions:	Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. This product is	
	hygroscopic. Store apart from materials and conditions listed in section	
Work/Hygionia Maintonanaa	10. Do not use tobacco or food in work area. Wash thoroughly before	
Work/Hygienic Maintenance:	Do not use tobacco or food in work area. Wash thoroughly before eating and smoking. Do not blow dust off clothing or skin with	
	compressed air.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below	

8. Ez	xposure Controls and Personal Protection
Permissible Exposure Limits:	N/A
Threshold Limit Value:	0.01 ppm as I, long-term value
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.
Respiratory Protection:	Dust Respirator
Protective Gloves:	Rubber gloves
Eye Protection:	Safety glasses or goggles
Body Protection:	Protective work clothing. Wear close-toed shoes and long sleeves/pants.
9.	Physical and Chemical Characteristics
Color	Dark grey
Form:	Powder, Granules, Pellets, Sputtering target, Custom parts
Odor:	Acidic
Water Solubility:	Reacts with water
Boiling Point:	N/A
Melting Point:	408 °C
Flash Point:	N/A
Autoignition Temperature:	N/A
Density:	5.778 g/cc
Molecular weight:	589.69 g/mol
	10. Reactivity
Stability:	Stable under recommended storage conditions
Reacts With:	Oxidizing agents, Sodium/sodium oxides
Incompatible Conditions:	None
Hazardous Decomposition Products:	Metal oxide fume, hydrogen iodide, Bismuth oxides

11. Toxicological Information

Potential Health Effects:	
Eyes:	Causes serious eye damage
Skin:	Causes severe skin burns
Ingestion:	Swallowing will lead to strong corrosive effect on mouth and throat and
Telle lettere	to the danger of perforation of esophagus and stomach.
Inhalation: Chronic:	May cause irritation Symptoms of chronic bismuth toxicity in humans consists of decreased
	appetite, weakness, rheumatic pain, diarrhea, fever, metal line on the gums, foul breathe, gingivitis, and dermatitis. Jaundice and conjunctival hemorrhage are rare but have been reported. Bismuth nephropathy with proteinuria may occur. The kidney is the site of highest concentration with the liver being considerably lower. Bismuth does pass into the amniotic fluid and into the fetus., Prolonged exposure to iodides may produce iodism in sensitive individuals. Symptoms of exposure include: skin rash, running nose, headache and irritation of the mucous membrane. For severe cases the skin may show pimples, boils, hives, blisters and black and blue spots. Iodides are readily diffused across the placenta. Neonatal deaths from respiratory distress secondary to goiter have been reported. Iodides have been known to cause drug-induced fevers, which are usually of short duration. Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin.
Signs & Symptoms: Aggravated Medical Conditions:	Cough, shortness of breath N/A
Median Lethal Dose:	N/A
Carcinogen:	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.OSHA: No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
	12. Ecological Information
Aquatic Toxicity:	N/A
Persistent Bioaccumulation Toxicity:	N/A
Very Persistent, Very Bioaccumulative:	N/A
Notes:	Do not allow material to be released to the environment without proper
	governmental permits.
	Do not allow undiluted product or large quantities to reach ground
	water, water course or sewage system. Avoid transfer into the environment.

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data		
Hazardous:	Hazardous for transportation.	
	CORROSIVE 8	
Hazard Class:	8 Corrosive substances	
Packing Group:	III	
UN Number:	UN3260	
Proper Shipping Name:	Corrosive solid, acidic, inorganic, n.o.s. (Bismuth triiodide)	
	15. Regulatory Information	
Sec 302 Extremely Hazardous:	No	
Sec 304 Reportable Quantities:	N/A	
Sec 313 Toxic Chemicals:	No	

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

16. Other Information

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