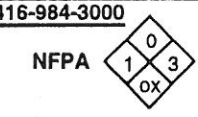


5100 W. Henrietta Rd.
West Henrietta, NY 14586
TEL: (866) 260-0501

MSDS No. 9801902 9801904
Effective Date: November 20, 2002

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	Bismuth Nitrate	416-984-3000																				
Chemical Synonyms	N/A																					
Formula	Bi(NO ₃) ₃ ·5H ₂ O																					
CAS No.	10035-06-0	<table border="1"> <tr> <td colspan="2">HAZARD RATING</td> <td colspan="2">WHMIS</td> </tr> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> </tr> <tr> <td colspan="2"></td> <td>EXTREME</td> <td></td> </tr> <tr> <td colspan="2"></td> <td>4</td> <td></td> </tr> </table>	HAZARD RATING		WHMIS		LEAST	SLIGHT	MODERATE	HIGH	0	1	2	3			EXTREME				4	
HAZARD RATING		WHMIS																				
LEAST	SLIGHT	MODERATE	HIGH																			
0	1	2	3																			
		EXTREME																				
		4																				

SECTION II DANGEROUS INGREDIENTS

Name	%	TLV Units
Bismuth nitrate, pentahydrate	100%	N/A

DANGER! STRONG OXIDIZER!

SECTION III PHYSICAL DATA

Melting Point (°C)	33°C	Specific Gravity (H ₂ O = 1)	2.830
Boiling Point (°C)	80°C	Percent Volatile by Volume (%)	Negligible.
Vapor Pressure (mm Hg)	Negligible.	Evaporation Rate (=1)	N/A
Vapor Density (Air=1)	N/A		
Solubility in Water	Decomposes.		
Appearance & Odor	White crystalline powder; no odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash point	Non-flammable.	Flammable Limits in Air % by Volume	N/A	Lower	Upper
Firefighting Procedures	Use dry chemical, CO ₂ , alcohol foam, or water spray. In fire conditions, fire-fighters should wear an appropriate mask or a self-containing breathing apparatus.				

Flammability and Explosion Hazards	Strong oxidizer. Contact with other material may catch fire. Fire or excessive heat may produce hazardous decomposition products to be produced as dust or fume.
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TDG Class 5.1 Oxidizing material. UN1477

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. For laboratory use only. Not for drug, food or household use. Keep out of reach of children. Printed on recycled paper.

SECTION V REACTIVITY DATA BB0143

Chemical Stability	Yes	X	If no, under what conditions?
	No		
Incompatible with Other products	Yes	X	Combustible materials, reducing agents, acids, metals, organic materials.
	No		
Hazardous Decomposition Products	Carbon oxides, nitrogen oxides, bismuth oxides.		
Reactive under what conditions	Keep away from heat, sources of ignition, incompatible materials.		

SECTION VI TOXICOLOGICAL PROPERTIES

Route of Entry	Ingestion.
TLV	N/A
Toxicity for animals	N/A
Chronic effects on humans	Repeated or prolonged exposure to the substance can produce target organ damage. Target organs: Kidneys.
Acute effects on humans	Harmful if inhaled or swallowed. May cause eye irritation, skin irritation.

SECTION VII PREVENTIVE MEASURES

Waste Disposal	Discharge, treatment, or disposal may be subject to local laws. Consult your local or regional authorities.
Storage	Keep container dry. Keep in a cool place. Keep container tightly closed. Keep away from acids, alkalies, heat, moisture.
Precautions	Avoid contact with skin and eyes. DO NOT breathe dust. DO NOT ingest. If ingested, seek medical advice immediately.
Spill or leak	Use appropriate tools to put the spilled solid in a convenient waste disposal container.
Protective Clothing	Safety glasses, lab coat, dust respirator, gloves.

SECTION VIII FIRST AID MEASURES

Specific first aid measures	Ingestion: Call physician or Poison Control Center immediately. Induce vomiting only if advised by the appropriate medical personnel. Eye contact: Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. Skin contact: Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Inhalation: Move victim to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Allow victim to rest in a well ventilated area. Seek immediate medical attention.
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SECTION IX PREPARATION OF THE MSDS

Rev. No.	2	Date	November 20, 2002	Approved	Michael Raszeja
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