



ALDON CORPORATION

MATERIAL SAFETY DATA SHEET

1533 W. Henrietta Rd.
Avon, New York 14414
(716) 226-6177

MSDS No. BB 140
Effective Date October 2, 1998

SECTION V HEALTH HAZARD DATA

BB 140

Threshold Limited Value

None established. (ACGIH-1983-84).

Effects of Overexposure

May cause severe irritation to respiratory/gastrointestinal tract. Irritant to mucous membranes. Excessive ingestion can produce damage to kidneys and liver, spots on mucous membranes of the mouth and colon, foul breath, stomatitis, gingivitis and salivation. May cause irritation/burns to skin and eyes.

Emergency and First Aid Procedures

INGESTION: Do NOT induce vomiting. If conscious, give one or two glasses of water to drink and call physician immediately. Never give anything by mouth to an unconscious person. **EYES:** Flush thoroughly with water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get immediate medical attention. **SKIN:** Flush with water, then wash with mild soap and water. **INHALATION:** Remove to fresh air. If illness or discomfort develop, get medical attention.

SECTION VI REACTIVITY DATA

Stability	Unstable		Conditions to Avoid	Moist air, excessive heat, sparks or open flame.
	Stable	X		

Incompatibility (Materials to Avoid)	Decomposed by water or aqueous alcoholic solution. Strong oxidizers.
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Hazardous Decomposition Products	Thermal decomposition may produce chlorine gas.
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Hazardous Polymerization		Conditions to Avoid	Not applicable.
May Occur	Will Not Occur		
	X		

SECTION VII SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled	Wearing suitable protective clothing and adequate ventilation, recover for use if not contaminated. Sweep up and place in a suitable container for disposal. Do NOT flush with water.
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Waste Disposal Method	Discharge, treatment, or disposal may be subject to Federal, State or Local laws. These disposal guidelines are intended for the disposal of catalog-size quantities only.
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Dispose of in an approved chemical landfill or contract with a licensed chemical waste disposal service.

SECTION VIII SPECIAL PROTECTION INFORMATION

Respiration Protection (Specify Type)	None should be needed in normal laboratory handling. If dusty or fume conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.
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Ventilation	Local Exhaust	Recommended.	Special	No.
	Mechanical (General)	Recommended.	Other	No.

Protective Gloves	Rubber.	Eye Protection	Chemical safety glasses.
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Other Protective Equipment	Goggles, lab coat, proper gloves, eye wash station, ventilation hood.
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SECTION IX SPECIAL PRECAUTIONS

Precautions to be Taken in Handling & Storing	Keep away from heat, sparks and open flame. Store in a cool, dry, well-ventilated area. Wash thoroughly after handling. KEEP CONTAINER TIGHTLY CLOSED.
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Other Precautions	Read label on container before using. Do not wear contact lenses when working with chemicals.
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Sublimes at about 430°C. Very deliquescent; volatilized by heat. Remove and wash contaminated clothing.

For laboratory use only. Not for drug, food or household use. Keep out of reach of children.

Revision	No. 5	Date	10/2/98	Approved	Michael Raszeja	Chemical Safety Coordinator	MR
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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. * Hazardous Materials Industrial Standards. Printed on recycled paper.

SECTION I NAME 24 HOUR EMERGENCY ASSISTANCE

Product	BISMUTH CHLORIDE	 CHEMTREC 800-424-9300 Day 716-226-6177 NFPA HAZARD RATING LEAST SLIGHT MODERATE HIGH EXTREME 0 1 2 3 4 HMIS * 3 2 4
Chemical Synonyms	Bismuth Trichloride	
Formula	BiCl ₃	
Unit Size	up to 2.5 Kg.	
C.A.S. No.	7787-60-2	

SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Bismuth Chloride.	100%	None established.

WARNING! CORROSIVE! IRRITANT TO SKIN, EYES AND MUCOUS MEMBRANES.

MODERATELY TOXIC BY INGESTION. HYGROSCOPIC. HYDROLYZED BY MOIST AIR.

SECTION III PHYSICAL DATA

Melting Point (°F)	230°C (448°F).	Specific Gravity (H ₂ O = 1)	4.75 @ 20°C.
Boiling Point (°F)	447°C (837°F).	Percent Volatile by Volume (%)	Not listed.
Vapor Pressure (mm Hg)	10 mm at 264°C.	Evaporation Rate (≈1)	Not applicable.
Vapor Density (Air=1)	Not listed.		
Solubility in Water	Not soluble. Decomposes in water.		
Appearance & Odor	White to yellowish, deliquescent crystals; Hydrochloric acid odor.		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method Used)	Non-combustible solid (NA).	Flammable Limits in Air % by Volume	NA	Lower	Upper
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Extinguisher Media	Use any media suitable for extinguishing supporting fire.				

SPECIAL FIREFIGHTING PROCEDURES

This material may produce toxic decomposition products. Wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective clothing.

(1996 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.7, GUIDE PAGE NO. 154)

UNUSUAL FIRE AND EXPLOSION HAZARDS

Dangerous; when heated to decomposition, emits highly toxic fumes of chlorides; will react with water or steam to produce toxic and corrosive fumes.

D.O.T. CORROSIVE SOLID, N.O.S., (BISMUTH TRICHLORIDE), 8, UN 1759, PG III

Approved by U.S. Department of Labor "essentially similar" to form OSHA-20