



# MATERIAL SAFETY DATA SHEET

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MSDS No. BB 180  
Effective Date January 28, 1999

## SECTION V HEALTH HAZARD DATA

BB 180

**Threshold Limited Value** None established. (ACGIH 1992-93).  
Toxicity data: oral-rat = >3200 mg/kg.

**Effects of Overexposure**  
**INHALATION:** Narcotic irritant. Acute exposure - Toxic manifestations which develop within 20 to 30 minutes after absorption are headache, dizziness, visual disturbances.  
**SKIN CONTACT:** May irritate severely or cause reddening or pain. **EYE CONTACT:** May irritate severely. **INGESTION:** May cause severe abdominal pain, nausea, intense thirst, diarrhea, convulsions and coma. Liver and kidney damage may occur. May be fatal if ingested. Exercise appropriate procedures to minimize potential hazards.

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

## SECTION VI REACTIVITY DATA

<b>Stability</b>	<b>Unstable</b>		<b>Conditions to Avoid</b>	Protect from light. Excessive temperature and heat.
	<b>Stable</b>	X		

**Incompatibility (Materials to Avoid)** Strong oxidizing agents.

**Hazardous Decomposition Products** Combustion will produce carbon dioxide and probably carbon monoxide. Bromine gas and oxides of sulfur may also be present.

<b>Hazardous Polymerization</b>		<b>Conditions to Avoid</b>	Not applicable.
<b>May Occur</b>	<b>Will Not Occur</b>		
	X		

## SECTION VII SPILL OR LEAK PROCEDURES

**Steps to be taken in case material is released or spilled** Wear protective safety equipment and use adequate ventilation. Avoid making dust. Sweep up and place in a suitable container for disposal. Flush spill area with water. Do not allow wash water to pollute water ways and streams.

**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.

Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a licensed waste disposal system.

## SECTION VIII SPECIAL PROTECTION INFORMATION

**Respiration Protection (Specify Type)** None should be needed in normal laboratory handling. If dusty conditions prevail, work in ventilation hood or wear a NIOSH/MSHA-approved dust mask or respirator.

<b>Ventilation</b>	<b>Local Exhaust</b>	<b>Recommended.</b>	<b>Special</b>	<b>No.</b>
	<b>Mechanical (General)</b>	<b>Recommended.</b>	<b>Other</b>	<b>No.</b>

**Protective Gloves** Rubber. **Eye Protection** Chemical safety glasses.

**Other Protective Equipment** Goggles, smock, apron, proper gloves, ventilation hood, and eye wash station.

## SECTION IX SPECIAL PRECAUTIONS

**Precautions to be Taken in Handling & Storing** Store in a cool, dry place. Protect from light. Avoid contact with skin and eyes. Wash thoroughly after handling.  
Keep container tightly closed when not in use.

**Other Precautions** Read label on container before using. Do not wear contact lenses when working with chemicals.

There is insufficient data in the published literature to recommend complete laboratory protective equipment for this product. Special precautions must be used in storage, use and handling. Remove and wash contaminated clothing.

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

<b>Revision</b> No. 4	<b>Date</b> 1/28/99	<b>Approved</b> Michael Raszeja	<b>Chemical Safety Coordinator</b> 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

<b>Product</b>	BROMOCRESOL GREEN	<p>CHEMTREC 800-424-9300 Day 716-226-6177</p> <p>NFPA HAZARD RATING</p> <table border="1"> <tr> <td>LEAST</td> <td>SLIGHT</td> <td>MODERATE</td> <td>HIGH</td> <td>EXTREME</td> </tr> <tr> <td>0</td> <td>1</td> <td>2</td> <td>3</td> <td>4</td> </tr> </table> <p>HMIS * Health 1 Fire 1 Reactivity 0</p>	LEAST	SLIGHT	MODERATE	HIGH	EXTREME	0	1	2	3	4
LEAST	SLIGHT		MODERATE	HIGH	EXTREME							
0	1		2	3	4							
<b>Chemical Synonyms</b>	3'3", 5'5"-Tetrabromo-m-Cresol-sulfonphthalein											
<b>Formula</b>	C <sub>21</sub> H <sub>14</sub> Br <sub>4</sub> O <sub>5</sub> S											
<b>Unit Size</b>	1 gram to 100 grams											
<b>C.A.S. No.</b>	76-60-8											

## SECTION II INGREDIENTS OF MIXTURES

Principal Component(s)	%	TLV Units
Bromocresol Green, pH Indicator	100%	None established.

**WARNING! MAY BE HARMFUL IF SWALLOWED, INHALED**

**OR ABSORBED THROUGH SKIN-CAUSES IRRITATION.**

## SECTION III PHYSICAL DATA

<b>Melting Point (°F)</b>	219°C (426°F) dec.	<b>Specific Gravity (H<sub>2</sub>O = 1)</b>	Greater than 1.
<b>Boiling Point (°F)</b>	Decomposes.	<b>Percent Volatile by Volume (%)</b>	Negligible as solid.
<b>Vapor Pressure (mm Hg)</b>	Negligible as solid.	<b>Evaporation Rate ( =1)</b>	Not applicable.
<b>Vapor Density (Air=1)</b>	Not listed.		
<b>Solubility in Water</b>	Slight.		
<b>Appearance &amp; Odor</b>	Tan powder; no odor.		

## SECTION IV FIRE AND EXPLOSION HAZARD DATA

<b>Flash Point (Method Used)</b>	Not applicable.	<b>Flammable Limits in Air % by Volume</b>	NA	<b>Lower</b>	<b>Upper</b>
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**Extinguisher Media** Carbon dioxide (CO<sub>2</sub>); dry chemical (ABC); water spray or fog.

## SPECIAL FIREFIGHTING PROCEDURES

In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and protective clothing.

## UNUSUAL FIRE AND EXPLOSION HAZARDS

Fire or excessive heat may produce hazardous decomposition products; can react vigorously with oxidizing materials.

D.O.T. NON-REGULATED.

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