KEMTEC **EDUCATIONAL** CORPORATION

MATERIAL SAFETY DATA SHEET

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MSDS No. Effective Date

BB 203 July 24, 1996

24 HOUR EMERGENCY ASSISTANCE NAME SECTION I CHEMTREC Product BROMOFORM 3 Health 800-424-9300 Chemical 0 Tribromethane Day 716-226-6177 Fire Synonyme Reactivity CHBr. Formula NFPA HAZARD RATING HMIS EXTREME HIGH Unit Size up to 20 Lt. SLIGHT MODERATE 2 3 C.A.S. No. 75-25-2 INGREDIENTS OF MIXTURES SECTION II **TLV Units** % Principal Component(s) TWA: 0.5 ppm, 5.2 mg/m³ 96% Bromoform: (CAS No. 75-25-2) TWA: 1000 ppm, 1880mg/m³ 4% Ethyl alcohol: (CAS No. 64-17-5) DANGERI LACHRYMATOR. TOXIC. HARMFUL IF INHALED, SWALLOWED OR ABSORBED THROUGH SKIN. PHYSICAL DATA SECTION III Specific Gravity (H,O = 1) 2.889 @ 20°/4°C 8°C (46°F) Melting Point (°F) Percent Voletile 100% by Volume (%) Boiling Point (°F) 150°C (302°F) Evaporation Rate m1) 0.56 Elher Vapor Pressure (mm Hg) 5 mm Hg @ 20°C Vapor Density (Air=1) 8.7 Solubility in Water 0.1% Coloriess to yellow liquid; chloroform-like odor. Appearance & Odor FIRE AND EXPLOSION HAZARD DATA SECTION IV Upper Flammable Limits in Air Fiash Point % by Volume NA (Method Used) Non-combustible (NA). Use dry chemical, carbon dioxide, water spray, log, regular foam. Extinguisher Media SPECIAL FIREFIGHTING In lire conditions, wear a NIOSH/MSHA-approved, self-contained **PROCEDURES** breathing apparatus and protective clothing to prevent contact with skin and eyes. (1993 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.6, GUIDE PAGE NO. 58)

UNUSUAL FIRE AND **EXPLOSION HAZARDS**

> Negligible fire hazard. When heated to decomposition may release irritating vapors.

Bromoform, 8.1, UN 2515, PG III U.O.T. Approved by U.S. Danartment of Lebor "essentially similar" to form OSHA-20

CTION V Threshold Limited Value	ACGIH (1992-93): TWA 0.5 ppm, 5.2 mg/m3
Effects of Overexposure	INGESTION/INHALATION: Prolonged exposure to high vapor concentrations or repeated exposures to low vapor concentrations causes CNS depression and may result in liver or identifying and possibly cardiac sensitization. May cause headache, nause, vomiting, dizziness, drowsiness, irritation of respiratory tract, and loss of consciousness. EYES: Confact with eyes causes irritation and may be painful. SKIN: Prolonged or repeated contact causes defatting and cracking of the skin.
Emergency and First Aid Procedures	INHALATION: Remove to fresh air. If not breathing, give artilicial respiration. If breathing is difficult, give oxygen. Get medical attention. EYES: Flush thoroughly with water for at least 15 minutes, lilting upper and tower eyelids occasionally. Get immediate medical attention. SKIN: Flush thoroughly with water, then wash with mild soap and water. INGESTION: It swallowed, do NOT induce vomiting. Call physician immediately. Never give anything by mouth to an unconscious person.

SECTIO	N VI		EACTIVITY DATA
Stability	Unstable		Conditions to Avoid Open flame, excessive temperature and heat.
	Stable		
Incompatibility Strong (Materials to Avoid) alumin		Stron alumi	g alkalles, oxidizers, alkali metals, metallic fines or powders, acetone, num and magnesium.
Hazardous Decomposition Products		ducts	Thermal decomposition may include toxic and corrosive fumes of bromides and oxides of carbon.
Hazardous Polymerization		The state of the s	Conditions to Avoid
May Occu		lot Occur	Not applicable.
-		Х	
SECTIO	IIV NO	S	PILL OR LEAK PROCEDURES

SECTION VII Steps to be taken in case material is released or spilled

Wear suitable protective clothing, absorb splitled material on vermiculite, sand, ground. Place in a liber carton and incinerate. Wash splil area well with soap and water.

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. Waste Disposal Method

Dispose of in an approved incinerator equipped with an afterburner and scrubber or contract with a ticensed disposal service.

SPECIAL PROTECTION INFORMATION SECTION VIII Work in fume hood. If needed wear a NIOSH/MSHA-approved respirator. Respiration Protection (Specify Type) No. Special Recommended. Local Exhaust No. Ventilation Other Recommended. Mechanical (General) Eye Protection Chemical safety glasses. Rubber. **Protective Gloves** Goggles and shield, lab coat and apron, vented hood, proper gloves, eye wash station. Other Protective

Equipment SPECIAL PRECAUTIONS SECTIONIX

Precautions to be Taken In Handling & Storing Keep container tightly closed when not in use Store in a cool place, protect from light. Wash thoroughly after handling.

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

Avoid breathing vapor. Use with adequate ventilation. Avoid contact with eyes, skin, clothing. Remove and wash conteminated clothing.

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

MR Michael Raszela Approved Coordinator Date 7/24/98 Revision No. 1

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