

DATE PREPARED: August 26, 2005

NTP: Not known

IARC: Not known

OSHA: Not known

EFFECTS OF OVEREXPOSURE:

2-Methoxyethanol: inhalation TC_{LO} (human) = 25ppm leads to central nervous system effects. May cause reversible or irreversible changes to exposed tissue, not permanent injury or death and can cause considerable discomfort via oral, intravenous, and inhalation routes. When used under conditions which do not require the application of heat, this material probably presents little hazard to health. Reflexes may be exaggerated or abnormal in character, and may be accompanied by complaints of drowsiness and fatigue. Tremors may be present. Severe damage probably takes the form of aplastic anemia.

Symptoms of barium poisoning include severe abdominal pain, vomiting, dyspnoea, paralysis and rapid pulse. Ingestion of water-soluble barium compounds can be fatal.

EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: Remove the victim to fresh air and seek medical attention if coughing, shortness of breath or irritation persists.

SKIN CONTACT: Wash the affected area with soap and water for at least 5 minutes.

EYE CONTACT: Immediately flush eyes, including under eyelids, with large amounts of water for at least 15 minutes. Call a physician.

INGESTION: Give the victim plenty of water and seek immediate medical attention.

-----**REACTIVITY DATA**-----

STABILITY: Moisture-sensitive material.

CONDITIONS TO AVOID: Contact with ignition source or heat.

INCOMPATIBILITY: Moisture, heat, strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂, barium oxide, and organic fumes

HAZARDOUS POLYMERIZATION: None

-----**ENVIRONMENTAL INFORMATION**-----

SPILL OR LEAKAGE PROCEDURES: Wearing full protective equipment, eliminate all sources of ignition. Cover spill with dry sand or vermiculite. Sweep up the mixture and dispose of properly.

WASTE DISPOSAL: Consult state, local, or federal EPA regulations for proper disposal.

-----**PROTECTION AND PRECAUTIONS**-----

VENTILATION REQUIREMENTS: Glove bag or box with dry, inert atmosphere.

RESPIRATORY PROTECTION: NIOSH/MSHA approved respirator with an organic vapor cartridge.

PROTECTIVE GLOVES: Rubber

EYE/FACE PROTECTION: ANSI approved safety goggles

HANDLING AND STORAGE: Handle and store the material under an inert atmosphere of nitrogen or argon. Keep away from heat.

OTHER PRECAUTIONS: The material will react with air and moisture. Lab coat and apron, flame and chemical resistant coveralls, eyewash capable of sustained flushing, safety drench shower and hygienic facilities for washing.

The information herein is believed to be accurate and reliable as of the date compiled. However, Chemat Technology Inc. makes no representation, warranty or guarantee of any kind with respect to the information on this data sheet or any use of the product based upon this information.

MATERIAL SAFETY DATA SHEET

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IDENTIFICATION

CHEMICAL NAME: Barium 2-methoxyethoxide, 10g/100ml in 2-methoxyethanol

CATALOG NUMBER: B106

FORMULA: Ba(OCH₂CH₂OCH₃)₂ in CH₃OCH₂CH₂OH

FORMULA WEIGHT: 287.50

TSCA: not listed in the TSCA inventory

2-methoxyethanol: listed

CHEMICAL FAMILY: Metal alkoxide solution

HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS: %

Title compound

10

ACGIH(TLV): No data

OSHA/PEL: No data

Methoxyethanol

90

ACGIH(TLV): 25 ppm

OSHA/PEL: 25 ppm

PHYSICAL DATA

APPEARANCE AND ODOR: Brown solution

MELTING POINT: No data

BOILING POINT: 124.5°C (2-methoxyethanol)

VAPOR PRESSURE: No data

SPECIFIC GRAVITY: No data

SOLUBILITY IN WATER: Reacts with water

FIRE HAZARD

FLASH POINT: 115°F (2-methoxyethanol)

AUTOIGNITION TEMPERATURE: 545°F (2-methoxyethanol)

EXTINGUISHING MEDIA: Flammable liquid. Use alcohol foam, carbon dioxide or dry chemical extinguishing agents. Water may be used to keep fire exposed containers cool.

SPECIAL FIRE FIGHTING PROCEDURES: Flammable liquid. Material may be ignited with flame, sparks, friction or heat. Burning material may release toxic and corrosive fumes. Use normal fire fighting procedures which include wearing NIOSH/MSHA approved self-contained breathing apparatus, flame, and chemical resistant clothing; hats, boots, and gloves. Leave the area unless fitted with a self-contained breathing apparatus and fire protective clothing..

UNUSUAL FIRE OR EXPLOSION HAZARDS: Flammable liquid. When exposed to heat or flame, methoxyethanol can react with oxidizing materials to form explosive peroxides.

HEALTH HAZARD

MODE OF ENTRY:

INHALATION: Yes

SKIN CONTACT: Yes

EYE CONTACT: Yes

INGESTION: Yes

CARCINOGENICITY: