

GELEST, INC.

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MATERIAL SAFETY
DATA SHEET

EMERGENCY TELEPHONE
CHEMTREC: 1-800-424-9300

NAME USED ON LABEL: **BORON METHOXYETHOXIDE - AKB158**

CHEMICAL NAME: BORON METHOXYETHOXIDE

SYNONYMS: TRI(2-METHOXYETHYL) BORATE,

CHEMICAL FAMILY: BORATE ESTER

FORMULA: C₉H₂₁O₆B

HMIS CODES HEALTH: 3 FLAMMABILITY: 2 REACTIVITY: 1

INGREDIENTS

IDENTITY	CAS NO.	%	TLV
BORON METHOXYETHOXIDE	98958-21-5	>95	not established
METHOXYETHANOL	109-86-4	<5	25ppm (skin)

PHYSICAL DATA

Boiling Point: 123-5° at 1.5mm

Specific Gravity: 1.029

Vapor Density (air=1): >1

% volatiles: NA

Molecular Weight: 236.07

Appearance & Color: Water white liquid; slight odor.

Melting Point: <0°C

Vapor Pressure: <1mm

Solubility in water: reacts

Evaporation rate: NA

Other: NA

FIRE & EXPLOSION DATA

Flash Point, COC: 113°C (235°F) Autoignition Temp.: not determined

Flammability Limits- LEL: NA UEL: NA

Extinguishing Media: Alcohol resistant foam, carbon dioxide, dry chemical.

Special Fire Fighting Procedures: Avoid water spray as n-butanol will be generated. Avoid eye and skin contact. Do not breathe fumes or inhale vapors.

Unusual Fire and Explosion Hazards: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

-1-(AKB158)

ENVIRONMENTAL INFORMATION

Spill response: Utilize non-flammable absorbent, then sweep material and transfer to a suitable container for disposal.

Recommended Disposal: After absorption onto non-flammable absorbent, dispose of as solid waste. Follow all chemical pollution control regulations.

HEALTH HAZARD DATA

Eye Contact: Will cause immediate or delayed severe eye irritation.

Skin contact: May produce irritation or contact dermatitis. Prompt and thorough washing with soap and water will reduce or eliminate potential dermal effects.

Inhalation: Inhalation of vapors or particulates may irritate the respiratory tract.

Oral Toxicity: not determined

Chronic Toxicity: not determined

SUGGESTED FIRST AID

EYES: In case of contact, immediately flush eyes with flowing water for at least 15 minutes. Get medical attention.

SKIN: Flush with water, then wash with soap and water.

INHALATION: Move exposed individual to fresh air. Administer oxygen if needed. Call a physician.

INGESTION: Never give fluids or induce vomiting if patient is unconscious or having convulsions. Get medical attention.

REACTIVITY DATA

Stability: Stable

Conditions to avoid: Material decomposes slowly in contact with air by reaction with moisture, liberating methoxyethanol and boric acid. Avoid contact with water.

Hazardous decomposition products: Organic acid vapors and boron oxide fumes, and methoxyethanol (ethyleneglycol, monomethylether).

-2-(AKB158)

SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust is required. Mechanical is recommended.

Respiratory Protection: If exposure exceeds TLV, NIOSH approved dust and mist respirator.

Eye and Face Protection: Chemical worker's goggles. Do not wear contact lenses.

Other Clothing and Equipment: Rubber, neoprene or nitrile gloves. An eyewash and emergency shower should be available. Launder clothing before reuse.

OTHER PRECAUTIONS

For research use only.

Storage and Handling: Store in sealed containers.

TRANSPORTATION

DOT SHIPPING NAME: CHEMICALS, NOI

DOT HAZARD CLASS: NOT REQUIRED

DOT LABEL: NOT REQUIRED

DOT ID No: NOT REQUIRED

Prepared by safety and environmental affairs AKB158 ISSUE DATE: 9/26/02
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