Material Safety Data Sheet (MSDS)

Ethyl Magnesium Bromide 2M & 3M In THF

Revision Date: 02-10-2026

Version: 1.0

Section 1: Product Identification

• **Product Name:** Ethyl Magnesium Bromide 2M & 3M In THF

• **Recommended Use:** Grignard reagent used in organic synthesis to form secondary and tertiary alcohols after hydrolysis, as well as to form alkanes and carboxylic acids by reaction with aldehydes, ketones, and CO2.

Section 2: Hazards Identification

• **Classification (GHS):** Flammable liquids; Acute toxicity, Oral; Skin irritation; Eye irritation.

• **Signal Word:** Warning

• **Hazard Statements:**

- Harmful if swallowed

- Causes skin irritation and serious eye irritation

- Combustible liquid

- Keep away from heat/sparks/open flames. No smoking

- Wear protective gloves/eye protection

- IF ON SKIN or IN EYES: Rinse cautiously with water; seek medical advice if irritation persists

Section 3: Composition / Information on Ingredients

Section 4: First Aid Measures

• **Inhalation:** Remove to fresh air. If symptoms develop, seek medical attention.

• **Skin Contact:** Wash with plenty of soap and water. Remove contaminated clothing. Seek medical advice if irritation persists.

• **Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses if present. Continue rinsing. Seek medical attention if irritation persists.

• **Ingestion:** Rinse mouth. Do NOT induce vomiting. Seek medical advice if feeling unwell.

Section 5: Fire-Fighting Measures

• **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide water spray.

• **Specific Hazards:** Combustible liquid; emits toxic fumes of carbon oxides under fire conditions.

• **Protective Equipment:** Firefighters should wear self-contained breathing apparatus and protective clothing.

Section 6: Accidental Release Measures

• **Personal Precautions:** Use personal protective equipment. Avoid breathing vapors. Ensure adequate ventilation. Eliminate ignition sources.

• **Environmental Precautions:** Prevent entry into drains and waterways.

• **Cleanup Methods:** Absorb with inert material. Collect in suitable container for disposal.

Section 7: Handling and Storage

• **Handling:** Avoid inhalation of vapors and contact with skin/eyes. Use with adequate ventilation. Keep away from ignition sources.

• **Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated place away from heat and oxidizing agents.

Section 8: Exposure Controls / Personal Protection

• **Exposure Limits:** ACGIH TLV 50 ppm 205 mg/m^3 TWA; OSHA PEL not established.

• **Engineering Controls:** Provide adequate ventilation and local exhaust if needed.

• **Personal Protective Equipment:** Chemical-resistant gloves, safety goggles, protective clothing. Respirator if ventilation is inadequate.

Section 9: Physical and Chemical Properties

• **Appearance:** Colorless liquid

• **Boiling Point:** 66 °C

• **Flash Point:** -20 °C

• **Solubility:** Soluble in THF, reacts with water

• **Molecular Weight:** 133.27 g/mol

Section 10: Stability and Reactivity

• **Stability:** Stable under normal conditions.

• **Incompatible Materials:** Strong oxidizing agents.

• **Hazardous Decomposition Products:** Carbon oxides under fire conditions.

Section 11: Toxicological Information

• **Routes of Exposure:** Inhalation, ingestion, skin and eye contact.

• **Acute Effects:** Harmful if swallowed; causes skin and eye irritation; may cause respiratory irritation.

• **Chronic Effects:** Prolonged or repeated exposure may cause dermatitis and liver/kidney effects.

Section 12: Ecological Information

• **Ecotoxicity:** May be harmful to aquatic life in high concentrations.

• **Persistence and Degradability:** Expected to be biodegradable.

• **Bioaccumulative Potential:** Low to moderate potential.

Section 13: Disposal Considerations

• Dispose of contents/container in accordance with local/regional/national regulations. Do not release into the environment.

Section 14: Transport Information

• **UN Number:** UN 1993

• **Hazard Class:** 3

• **Packing Group:** II

• **Proper Shipping Name:** Ethyl Magnesium Bromide 2M & 3M In THF

Section 15: Regulatory Information

• Complies with Indian chemical safety regulations and listed under international chemical inventories.

• Classified as hazardous substance as per GHS.

Section 16: Other Information

- **Disclaimer:** The above information is believed to be correct but does not claim to be exhaustive. Users are responsible for verifying suitability under actual conditions of use. **Triveni chemicals** disclaim any liability for damage resulting from handling or contact.