

Safety Data Sheet

Version 4.0
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1. Product and Company Identification

Product Name TMB One Component Substrate
Catalog Number E102
Supplier Bethyl Laboratories, Inc.
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Montgomery, TX 77356
Telephone 800-338-9579
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Product Use For Research Use Only, Not for Diagnostic Use.

2. Hazards Identification

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Not a hazardous substance or mixture.

GHS Label elements including precautionary statements

Not a hazardous substance or mixture.

3. Composition/Information on Ingredients

Contains no hazardous ingredients at levels requiring disclosure by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

4. First Aid Measures

General If exposed or concerned, get medical attention/advice. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before re-use. Never give anything to an unconscious person.

If swallowed Rinse mouth thoroughly. Do not induce vomiting without advice from poison control center or medical professional. Get medical attention if you feel unwell.

Skin contact Wash skin with water for 15 minutes.

Eye exposure Immediately flush with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do so. Continue rinsing.

If inhaled Remove to fresh air and keep at rest in a comfortable position for breathing.

Most important symptoms and effects, both acute and delayed

Symptoms/injuries: Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/injuries after inhalation: May cause respiratory irritation.

Symptoms/injuries after skin contact: May cause skin irritation.

Symptoms/injuries after eye contact: May cause slight temporary irritation.

Symptoms/injuries after ingestion: May cause gastrointestinal irritation.

5. Fire-Fighting Measures

Extinguishing Media

Use Foam. Carbon dioxide. Dry powder. Water spray. Sand.

Special hazards arising from the substance or mixture

No dangerous reactions known under normal conditions of use.

Special protective equipment for firefighters

Wear self-contained breathing apparatus and protective suit.

6. Accidental Release Measures

Personal precautions

Evacuate area. Ventilate area. Keep upwind. Spill should be handled by trained clean-up crews properly equipped with respiratory equipment and full chemical protective gear (see Section 8).

Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

Methods and materials for containment and cleaning up

Place in a suitable container for disposal in accordance with the waste regulations (see Section 13). Wash spill area thoroughly with plenty of soap and water.

7. Handling and Storage

Precautions for safe handling

Do not handle until all safety precautions have been read and understood. Use appropriate personal protection equipment (PPE). Keep away from sources of ignition - No smoking. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

Conditions of safe storage

Keep the container tightly closed. Store in a dry, cool and well-ventilated place. Store away from light. Avoid elevated temperatures. Recommended storage temperature is 2 - 8°C.

8. Exposure Controls/Personal Protection

Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Hand protection

Chemical goggles or safety glasses.

Skin protection

Use gloves chemically resistant to this material when prolonged or repeated contact could occur. Gloves should be classified under Standard EN 374 or ASTM F1296. Suggested glove materials are: Neoprene, Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, PVC or vinyl.

Skin and Body protection

Wear suitable protective clothing. Wear long sleeves.

Respiratory protection

Where excessive vapour, mist, or dust may result, use NIOSH approved respiratory protection equipment.

9. Physical and Chemical Properties

Physical state:	Liquid
Appearance:	Colorless to pale yellow liquid.
Color:	Clear. light yellow.
Odor:	No specific data.
Odor Threshold:	No data available
pH:	3.3 - 3.8
Relative evaporation rate (butylacetate=1):	No data available
Melting point:	No data available
Freezing point:	No data available
Boiling point:	No data available
Flash point:	No data available
Auto-ignition temperature:	No data available
Decomposition temperature:	No data available
Flammability (solid, gas):	Not Flammable
Vapour pressure:	No data available
Relative vapour density at 20 °C:	No data available
Relative density:	1.01 (H ₂ O = 1.0)
Solubility:	Water: 100 %
Log Pow:	No data available
Log Kow:	No data available
Viscosity, kinematic:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	Product is not explosive.
Oxidising properties:	Not an Oxidizer.
Explosive limits:	No data available

10. Stability and Reactivity

Reactivity

No dangerous reactions known under normal conditions of use.

Chemical stability

Product is stable under normal conditions of storage and use.

Possibility of hazardous reactions

None known.

Conditions to avoid

Light. Elevated temperatures. Moisture.

Incompatible materials

Strong oxidizing agents. Metals.

Hazardous decomposition products

Thermal decomposition generates: Carbon oxides (CO, CO₂). Nitrogen oxides.

11. Toxicological Information

Acute toxicity	Not classified
Skin corrosion/irritation	Not classified pH: 3.3 - 3.8
Serious eye damage/eye irritation	Not classified pH: 3.3 - 3.8
Respiratory or skin sensitization	Not classified

Germ Cell Mutagenicity	Not classified
Carcinogenicity	Not classified
Reproductive toxicity	Not classified
Specific target organ toxicity single exposure	Not classified
Specific target organ toxicity repeated exposure	Not classified
Aspiration hazard	Not classified
Symptoms/injuries after inhalation	May cause respiratory irritation.
Symptoms/injuries after skin contact	May cause skin irritation.
Symptoms/injuries after eye contact	May cause slight temporary irritation.
Symptoms/injuries after ingestion	May cause gastrointestinal irritation.

12. Ecological Information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available
Other adverse effects	No data available

13. Disposal Considerations

Waste treatment methods: Obtain the consent of pollution control authorities before discharging to wastewater treatment plants.

Waste disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Do not allow the product to be released into the environment.

14. Transportation Information

No special transport regulations	
DOT (US)	Not dangerous goods
IMDG	Not dangerous goods
IATA	Not dangerous goods

15. Regulatory Information

US Federal regulations

All chemical substances in this product are listed in the EPA (Environment Protection Agency) TSCA (Toxic Substances Control Act) Inventory All the constituents of this preparation are registered in the EINECS inventory or in the ELINCS list

CANADA

No additional information available

California Proposition 65

This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

16. Other Information

For research use only.

Read instructions for use before using the product. Observe the general safety regulations when handling chemicals.

The above information is believed to be correct but does not purport to be all-inclusive and is intended to be used only as a guide. Bethyl Laboratories, Inc. shall not be liable or responsible in any way for use of either this information or the material supplied. Disposal of hazardous material may be subject to federal, state, or local laws or regulations.

Prepared by: Safety Department
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