

MATERIAL SAFETY DATA SHEET

1. PRODUCT NAME

ECOMAX™

2. COMPOSITION AND INFORMATION ON INGREDIENTS

	CAS NO	Weight%	OSHA PEL	ACGIH TLV
n-Propyl bromide	106-94-5	> 90	Not Est.**	Not Est.
1,2 Epoxybutane	106-88-7	<1	Not Est.	Not Est.
2-Methyl-2-propanol	75-65-0	<2	100 ppm	100 ppm
Dimethoxymethane	109-87-5	<2	1000 ppm	1000 ppm

**Enviro Tech International, Inc. recommends a workplace exposure guideline of 100 ppm/8 hr. TWA (Time Weighted Average) based on scientific assessment of nPB and other relevant toxicological data.

3. HAZARDS IDENTIFICATION

Emergency Overview: *ECOMAX™* has no flash point, but vapors will form a flammable mixture at a concentration of 4.6% to 8.5% by volume with air. Vapors may be irritating to eyes, skin and respiratory tract. Not expected to be acutely toxic.

SYMPTOMS / EFFECTS OF OVEREXPOSURE

Inhalation: May irritate the nose, throat, and lungs. Exposure to high doses may cause central nervous system depression (anaesthetic-like effects). Doses which cause anaesthetic-like effects may also cause adverse effects in liver, lung, and kidney.

Ingestion: Low order of toxicity. May cause nausea and abdominal discomfort

Skin: Prolonged exposure may cause a skin irritation.

Eyes: Contact with eyes may cause mild irritation.

4. FIRST AID MEASURES

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Ingestion: Do not induce vomiting. Seek medical attention.

Skin: Remove contaminated clothing. Thoroughly wash affected area with soap and water and use skin cream if irritation is severe.

Eyes: Immediately flush eyes with water for 15 minutes. Call a physician if irritation persists.

5. FIRE FIGHTING MEASURES

Extinguishing Media: Dry chemical, chemical foam, carbon dioxide. Class BC, ABC fire extinguisher.

Special Fire Fighting Procedures: Wear a self-contained breathing apparatus and personal protective equipment to avoid skin and eyes contact in fire situations.

Unusual Fire and Explosions Hazard: In fires, toxic and corrosive gases may be released.

6. ACCIDENTAL RELEASE MEASURES

Absorb spill with inert material, then place in chemical waste container. For large spills, dike for later disposal. Observe government regulations.

7. HANDLING AND STORAGE

Store in original container, preferably in a cool ventilated location. Avoid overheating or freezing. Avoid open flames and sparks. Since empty containers may retain product residues (vapor, liquid, or solid) all label precautions must be observed.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Respiratory: Use approved respirator if ventilation is not sufficient and if mists are generated.

Ventilation: If desirable to reduce odor, local exhaust can also be effective in minimizing odor. Provide sufficient ventilation to maintain emissions below recommended exposure limits.

Clothing/Glove: Chemically resistant gloves should be used with all industrial chemicals. Viton or Silver Shield Gloves are preferred.

Eye Protection: Always wear safety glasses or goggles. Provide eye bath near work site.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Colorless liquid

Boiling Point (760 mm Hg) 159°F (70°C)

Vapor Density (Air = 1): >1

% Volatile (By weight): 100

Evaporation Rate (BUAC = 1): < 1

Specific Gravity (H₂O =1): 1.33 @ 77°F (25°C)

Solubility in Water: Negligible

Reactivity with Water: Not readily Hydrolyzed

Vapor Pressure (25°C): > 139 mm Hg

Flash Point: None (ASTM D93 TCC)

Flammable Limits: (% By Volume in Air): 4.6% to 8.5%

10. STABILITY AND REACTIVITY

Stability: *ECOMAX™* is stable

Conditions to Avoid: Storage temperatures above the boiling point (159°F). Operating temperatures above 185°F and decomposition temperatures above 400°F.

Incompatibility: Strong mineral acids and strong oxidizing agents. Prolonged contact with aluminium, magnesium, and zinc metals should be avoided.

Hazardous Decomposition: Thermal decomposition products are known to be hazardous.

Hazardous Polymerization: Will not occur.

11. TOXICOLOGICAL INFORMATION

n-Propyl bromide:	LD50/oral/rat = 4,260 mg/kg LC50/rat = 14,000 ppm/ 4hr.
1,2 epoxybutane:	LD50/oral/rat = 500 mg/kg LD50/dermal/ rabbit = 2,100 mg/kg LC50/inhalation/rat = 4,000 ppm/ 4hr.
2-Methyl-2-propanol:	LD50/oral/rat = 3,500 mg/kg
Dimethoxymethane:	LC50/rat = 15,000 ppm

12. ECOLOGICAL INFORMATION

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment or incinerate used material in compliance with all applicable government regulations. DO NOT flush into sanitary sewer or waterway.

14. TRANSPORT INFORMATION

Non-regulated.

15. REGULATORY INFORMATION

The product contains 2-methyl-2-propanol which is subject to the reporting requirements of SARA Title III, Section 313. No other components of *ECOMAX™* appear on any of the EPA's lists of toxic or hazardous substances. None of the components of this product is listed in California's Safe Drinking Water and Toxic Enforcement Act of 1986 — Proposition 65 as a chemical known to cause cancer, birth defects or other reproductive harm. All the components of this product are listed on the TSCA inventory.

16. OTHER INFORMATION

NFPA Codes: Health: 1 Fire: 0 Reactivity: 0

This information is accurate to the best knowledge of Enviro Tech International, Inc. and is offered as a guide to the safe use of this product. The information contained in this Material Safety Data Sheet is furnished without warranty of any kind, express or implied, and relates only to the specific material designated herein. Enviro Tech International, Inc. assumes no responsibility for use or reliance on this data and assumes no liability for damages related to the use or misuse of this product. The user is responsible for determining the conditions of safe use of this product and for complying with all Federal, State and Local governmental laws and regulations.