

MATERIAL SAFETY DATA SHEET

ENVIRO-SOLV

Section I



CHEMICALS & EQUIPMENT, INC.

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Section II — Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity: Common Name(s))	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
1-tert-butoxy-2-propanol	10mg/m3			
2-hydroxypropanoic acid ethyl ester	-			

Section III — Physical/Chemical Characteristics

Boiling Point	190 F	Specific Gravity (H ₂ O =1)	.89
Vapor Pressure (mm Hg.)	2	Melting Point	liquid
Vapor Density (AIR = 1)	>5	Evaporation Rate (Butyl Acetate = 1)	<0.2

Solubility in Water - emulsified completely in water

Appearance and Odor – orange clear liquid with mild odor

Section IV — Fire and Explosion Hazard Data

Flash Point (Pensky-Marten's Closed Cup)	Flammable Limits	LEL	UEL
218 F		0.7%	3.0%

Extinguishing Media – Foam, Halon on hard surfaces only, Dry chemicals, CO₂. Use water spray or fog for cooling of surfaces only. Water may spread burning liquid.

Special Fire Fighting Procedures – None known

Unusual Fire and Explosion Hazards – Exposure of containers to heat, flames, sparks, static, electricity or other sources of ignition may cause explosion.

Section V — Reactivity Data

Stability	Unstable	x	Conditions to Avoid
	Stable		Heat Sources

Incompatibility (Materials to Avoid): Oxidizers, strong acids and bases.

Hazardous Decomposition or Byproducts: Oxides of nitrogen and carbon with smoke and fumes.

Hazardous Polymerization	May Occur	X	Conditions to Avoid
	Will Not Occur		

Section VI — Health Hazard Data

Route(s) of Entry	Inhalation? X	Skin? X	Ingestion? X
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Health Hazards (Acute and Chronic):

EYES: Irritation – Will not damage eyes.

SKIN: Little to no effect. Absorption – No toxic effects likely by this route.

INGESTION: Stomach discomfort, may cause diarrhea. A massive dose would be required to produce any symptoms in a human of average weight.

INHALATION: Irritation of respiratory tract. Low vapor pressure makes development of such a concentration unlikely.

Carcinogenicity: NTP? Unknown **IARC Monographs?** Unknown **OSHA Regulated?** Unknown

Signs and Symptoms of Exposure: Redness and irritation of skin, eyes, lungs, and intestinal tract.

Medical Conditions (Generally Aggravated by Exposure): Pre-existing medical conditions/disorders of skin, eyes, lungs, and intestinal tract.

Emergency and First Aid Procedures:

SKIN: Wash with soap and large amounts of water. Risk of burns when handled at high temperatures. Remove contaminated clothing including shoes after flushing has begun. Get prompt medical attention if irritation persists.

EYES: Flush eyes immediately with large amounts of water for at least 15 minutes. Get medical attention if irritation persists.

INHALATION: If symptoms develop, move away from exposure to fresh air. Negligible risk, unless exposed to vapors from heated liquid. Vapors or finely misted liquid may irritate the mucous membranes and cause irritation, dizziness and nausea.

INGESTION: If swallowed, DO NOT INDUCE VOMITTING. Keep person at rest. Give one or two glasses of water to drink.

Section VII — Precautions for Safe Handling and Use

Steps to Be Taken in Case Material is Released or Spilled: Safely stop further spillage. Immediately eliminate all potential sources of ignition. Contact emergency personnel. Prevent spilled liquid from entering the sewers, drains, watercourses or low areas. Contain with sand, earth or other non-flammable absorbents. Do not use sawdust. Avoid contact with spilled material. Wear proper protective equipment when dealing with a spill.

For spills on water: Immediately warn shipping and other activities in downwind areas. Contain spill using floating booms. Recover with suitable absorbent. All other precautionary measures outlined above for land spills also apply.

Surfaces – Wash surfaces with water and detergent. This product may cause surfaces to be slippery after a spill.

Waste Disposal Method: Recover by pumping or absorbents. Dispose of recovered material in compliance with local, state and federal regulations.

Precautions to Be Taken in Handling and Storing: Store at temperatures between 50 degrees F and 120 degrees F. Do not handle or store near open flames, or other sources of heat or ignition. DO NOT EXPOSE EMPTY CONTAINERS TO HEAT, FLAMES OR OTHER SOURCES OF IGNITION. Electrostatic hazard liquid and vapors can accumulate an electrostatic charge which can lead to ignition, fire and explosion. Keep containers grounded at all time when transferring product.

Section VIII — Control Measures

Respiratory Protection (Specify Type): If vapors or mists are generated, provide exhaust ventilation to keep airborne concentrations of vapors below maximum allowable concentrations. Use explosion proof ventilation equipment. Locate exhaust in a safe location.

Ventilation

Local Exhaust: Recommended

Special: none

Mechanical (General): Recommended

Other: none

Protective Gloves: PVC coated or nitrile gloves recommended

Eye Protection: Safety glasses, goggles or face shield

Other Protective Clothing or Equipment: Full coverage clothing (long sleeves shirt and pants) Proper protective footwear.

Work/Hygiene Practices: Practice good housekeeping and hygiene.