

Material Safety Data Sheet

May be used to comply with
OSHA's Hazard Communication Standard
29 CFR 1910.1200. Standard must be
consulted for specific requirements

U.S. Department of Labor

Occupation Safety and Health Administration
(Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY

BIO TERP 100 (210000)

Note: Blank spaces are not permitted. If any item is not applicable, or no information is available, the space must be marked to indicate that.

Section I

Manufactured by: Beaver Research Company	Emergency Telephone Number 1-800-255-4924 (Chem-Tel)
Address (Number, Street, City, State, and ZIP Code) 3700 E. Kilgore Road, Portage, MI 49002	Telephone Number For Information 269-382-0133
HMIS RATINGS: 0-Least 3-High 1-Slight 4-Extreme 2-Moderate	Health: 1 Fire: 2 Reactivity: 0
Date Prepared 03/09/07	
Signature of Preparer (optional)	

Section II - Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS No.	OHSA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
d-limonene	5989-27-5	N/A	N/A	N/A	> 95

Section III - Physical/Chemical Characteristics

Boiling Point	@760 mm Hg	Specific Gravity (H ₂ O = 1)	.840
Vapor Pressure (mmHg)	Not determined	% Volatile by weight	Not determined
Vapor Density (AIR = 1)	Heavier than air	Evaporation Rate (Butyl Acetate = 1)	Slower than n-Butyl Acetate
Solubility in Water	pH		
Insoluble	N/A		
Appearance and Odor	Orange liquid; characteristic orange peel		

Section IV - Fire and Explosion Hazard Data

Flash Point (Method Used) 120°F Tag Closed Cup	Flammable Limits Not determined	LEL N/A	UEL N/A
Extinguishing Media Carbon dioxide, foam or dry chemical			
Special Fire Fighting Procedures Class B fire procedures. Wear NIOSH approved respirator and full protective gear.			
Unusual Fire and Explosion Hazards None known.			

Section V - Reactivity Data

Stability	Unstable	Conditions to Avoid	N/A
	Stable	X	
Incompatibility (Materials to Avoid) Strong oxidizing agents.			
Hazardous Decomposition or Byproducts Carbon dioxide or carbon monoxide and smoke on combustion.			
Hazardous Polymerization	May Occur	Conditions to Avoid	N/A
	Will Not Occur	X	

Section VI - Health Hazard Data

Route(s) of Entry:	Inhalation?	Skin?	Ingestion?
	Yes	Yes	No

Health Hazards (Acute and Chronic)

Eyes: can cause severe irritation, tearing and redness, blurred vision. **Skin:** Prolonged or repeated contact can cause irritation, defatting or dryness of skin, dermatitis. **Inhalation:** Excessive inhalation of vapors can cause irritation of the respiratory tract, nausea, dizziness or headache. **Ingestion:** Can cause serious health effects including nausea, vomiting and gastrointestinal irritation.

Carcinogenicity:	NTP?	IARC Monographs?	OSHA Regulated?
	No	No	No

Signs and Symptoms of Exposure

See above "Health Hazards"

Medical Conditions Generally Aggravated by Exposure

None known.

Emergency and First Aid Procedure

Eyes: Flush eyes with water for at least 15 minutes, get medical attention if necessary.

Skin: Wash thoroughly with soap and water. Remove contaminated clothing.

Inhalation: If affected by vapors, get to fresh air. If breathing is difficult, see physician. **Aspiration of substantial amounts of irritant liquids into lungs can be fatal, get medical attention immediately.**

Ingestion: Give water to dilute, get medical attention.

Section VII - Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Remove ignition sources. Contain spill. Absorb with suitable chemical absorbents for disposal.

Waste Disposal Method

Soak up with absorbent material for incineration. Observe local, state and federal regulations.

Precautions to be Taken in Handling and Storage

Handle as flammable or combustible liquid as appropriate. Avoid eye contact and prolonged contact with the skin. Use adequate ventilation. Wash thoroughly after handling.

Other Precautions

N/A

Section VIII - Control Measures

Respiratory Protection (Specify Type)

None normally required with adequate ventilation.

Ventilation	Local Exhaust	Recommended	Special	N/A
	Mechanical(General)	Adequate	Other	N/A

Protective Gloves	Eye Protection
Recommended.	Safety Glasses/Goggles

Other Protective Clothing or Equipment

Coveralls, aprons, boots.

Work/Hygienic Practices

N/A

The health hazards given on this Material Safety Data Sheet apply to this product in its concentrated form (as supplied) and may differ significantly at use dilution. The signs and symptoms of overexposure apply only to negligence in handling or misuse of the concentrated product and not to the routine exposure of the diluted product under conditions of ordinary use.