



MATERIAL SAFETY DATA SHEET

HAZARD RATINGS

Health: 1
 Flammability: 2
 Reactivity: 0
 Personal Protection: B

NOTICE: Judgment may be based on indirect test and technical literature. The OSHA Hazard Communication Standard only requires MSDS's and special labeling for materials defined as "HAZARDOUS"; see 29 CFR 1910.1200 (c). This document may be about a product which is NOT hazardous but is provided as information for our customers. See references for information.

SECTION I.

PRODUCT IDENTIFICATION

Product Identifier: Bio-R
 Product VOC: 95.79%
 Manufactured For: Sundry Tech
 PO Box 427
 Frederick, PA 19435

Product Identification #(PIF): 1468
 Emergency Telephone #: 1-800-255-3924
 General Information #: 610-754-7283
 Prepared by: Sonya Lockhart
 Date Prepared: October 28, 2003

SECTION II.

HAZARDOUS INGREDIENTS

	CAS #	OSHA/PEL	TLV	STEL	max. %
1. Terpene Hydrocarbon	5989-27-5	NE	NE	NE	57
2. Tripropylene glycol monomethyl ether	25498-49-1	NE	NE	NE	21
3. Dimethyl Glutarate	1119-40-0	NE	NE	NE	13
4. Dimethyl Adipate	627-93-0	NE	NE	NE	4
5. Dimethyl Succinate	106-65-0	NE	NE	NE	4

SECTION III.

HEALTH HAZARD INFORMATION

.....Primary Routes of Entry: X Skin X Eyes X Inhalation Ingestion

◆ Effects of overexposure:

- Eye Contact: Liquid may cause eye irritation with redness, pain and tearing.
- Skin Contact: May cause irritation. Prolonged or repeated contact may cause dermatitis.
- Inhalation: Vapors may cause irritation to nose, throat, and respiratory tract. Breathing large amounts may be harmful. High vapor concentrations may result in CNS depression.
- Ingestion: Swallowing large amounts may be harmful.

SECTION IV.

EMERGENCY FIRST AID

- ◆ Eyes: Flush well with water for at least 15 minutes. Seek medical attention.
- ◆ Skin: Wash with soap and water. If irritation develops, seek medical attention.
- ◆ Inhalation: Move to fresh air.
- ◆ Ingestion: Drink lots of water to dilute, **DO NOT INDUCE VOMITING.** Get medical help.

SECTION V.

FIRE & EXPLOSION DATA

Flammability: COMBUSTIBLE LIQUID
 Means of extinction: Foam, dry chemicals, CO₂.
 Autoignition Temperature: ND
 Hazardous combustion products: Carbon monoxide, carbon dioxide and smoke.

Flash Point: 115°F Closed Cup
 Upper Flammability Limit (% by volume): ND
 Lower Flammability Limit (% by volume): ND

- ◆ Special Fire Fighting Procedures: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Smother to exclude air. Do not use water. Handle as an oil fire.
- ◆ Unusual Fire Fighting Hazard: Vapor forms explosive mixture with air. Combustible liquid, keep away from heat and open flames. Slippery on floors; be cautious of footing if containers leak or burst due to heat.

SECTION VI.**REACTIVITY DATA**

Chemical stability: Stable

Hazardous polymerization: Will not occur.

Incompatibility with other substances: Strong oxidizing agents and acidic agents including acidic clays, alkalis, peroxides, halogens, vinyl chloride, metals such as aluminum, and iodine pentafluoride.

Reactivity, and under what conditions? Violently reacts with strong acids to release large amounts of heat. Combustible.

Hazardous decomposition products: Carbon monoxide, carbon dioxide and smoke.

SECTION VII.**HANDLING & STORAGE**

Storage: Keep container closed, when not in use. Keep away from heat, flame, or sunlight. Protect from physical damage.

Handling: Do not premix with other chemicals. Exercise reasonable care and precaution. Keep out of reach of children.

SECTION VIII.**EXPOSURE CONTROL/PERSONAL PROTECTION**

Personal protective equipment: Use rubber gloves and eye protection.

Gloves (specify): Chemical resistant gloves

Respirator (specify): NIOSH, if ventilation inadequate

Eye (specify): Chemical resistant eye ware

Footwear (specify): Chemical resistant shoes

Clothing (specify): Normal materials handling clothing.

Other: Always provide adequate ventilation.

SECTION IX.**SPECIAL PRECAUTIONS/ OTHER COMMENTS**

Carefully read all instructions on label before handling this product. "FOR INDUSTRIAL USE ONLY"

SECTION X.**PHYSICAL DATA**

Boiling point: >212°F

Vapor Density: (Air = 1): ND

Specific Gravity, (water + 1.0): 0.920

pH, Neat: ND

% Volatile/ volume: 95.79%

Vapor Pressure: ND

Solubility: Dispersible

Evaporation Rate: slower than butyl acetate

Description/odor: Straw colored clear liquid with citrus odor.

SECTION XI.**TOXICOLOGICAL INFORMATION**

◆ Effects of acute exposure to product: Liquid and vapor irritating to eyes, skin and respiratory tract.

◆ Effects of chronic exposure to product: Prolonged skin contact may result in defatting of the skin, which can lead to dermatitis.

SECTION XII.**ECOLOGICAL INFORMATION**

Dibasic ester: 96 hour LC50 – Fathead minnows: 18-24 mg/L (moderately toxic).

SECTION XIII.**ACCIDENTAL RELEASE MEASURES/ DISPOSAL INFORMATION**

Large spills cannot occur because of packaging. Eliminate all ignition sources. Slippery on floors; be cautious of footing. Material should be soaked onto absorbent and shoveled into waste containers. Dispose of contaminated absorbent material in accordance to local, state and federal regulations. Do not release to open, public waters.

SECTION XIV.**TRANSPORT INFORMATION**

Hazardous according to Table 49 CFR 172.101: **COMBUSTIBLE LIQUID N.O.S. (Terpene Hydrocarbon), COMBUSTIBLE LIQUID, UN 1993, III.**

Combustible Liquid: This material is not regulated under 49 CFR if in a container of 119 gallon capacity or less.

SECTION XV.**REGULATORY INFORMATION****SARA TITLE III REPORTING REQUIREMENTS**

SECTION 302: Not listed

SECTION 311/312: Immediate Health, Fire Hazard

SECTION 313: Not listed

CERCLA: Not Reportable.

RCRA: A waste containing this product may have the RCRA hazardous waste no. D001 (Ignitable) (40 CFR 261.22).

SECTION XVI.

ADDITIONAL INFORMATION

NONE.....

The information contained herein is based on data available to us and is believed to be correct. We make no warranty, however, expressed or implied regarding the accuracy of these data or the results obtained from the use thereof.

Regulatory Standards: DOT TITLE 49, Code of Federal Regulations 172.101: Parts 100 to 177, Revised 10/1/92.

SUPER FUND AMENDMENTS REAUTHORIZATION ACT OF 1986, TITLE III TOXIC SUBSTANCE CONTROL ACT LIST (TSCA)-
INGREDIENTS LISTED. REGISTRY OF TOXIC EFFECTS OF CHEMICAL SUBSTANCES NATIONAL TOXICOLOGICAL PROGRAM
(NTP) REPORT OF CARCINOGENS INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) MONOGRAPHS,
OCCUPATIONAL SAFETY & HEALTH REGULATIONS. CODE OF FED. REGS. FOOD & DRUG, 21 PARTS 170 to 199, Revised 4/1/91,
173.310.