

Product: **BIOBRAKE**

Date: January 6, 1999

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**SECTION I. MATERIAL IDENTIFICATION****Trade/Material Name:** BioBrake

**Manufacturer:** BioChem Systems, Inc. Phone: 800-777-7870 (Business)  
P.O. Box 8098 800-633-8253 (Emergency)  
The Woodlands, TX 77387-8098 Cage Number: OXYGO

**SECTION II. INGREDIENTS AND HAZARDS**

<b>Ingredient Name:</b>	<b>Exposure Limits:</b>
C <sub>9</sub> -C <sub>12</sub> Hydrocarbons	OSHA PEL & TLV--100 ppm
Propanol, (2-methoxymethylethoxy)	OSHA PEL & TLV--100 ppm
Acetone	OSHA PEL & TLV -- 1,000 ppm

All components that comprise BioBrake are registered on the TSCA inventory.

**SECTION III. PHYSICAL DATA**

<b>Appearance &amp; Odor:</b>	Colorless with a slight hydrocarbon odor
<b>Boiling Point:</b>	134°F
<b>Evaporation Rate (H<sub>2</sub>O = 1):</b>	>1
<b>Vapor Pressure:</b>	>2 mm Hg @ 20°C
<b>Specific Gravity (H<sub>2</sub>O = 1):</b>	0.7 @ 25°C
<b>Freezing Point:</b>	Not determined
<b>Vapor Density (air = 1):</b>	>1
<b>pH:</b>	Not applicable
<b>Solubility in Water:</b>	Negligible

**SECTION IV. FIRE AND EXPLOSION DATA**

<b>Flash Point (method):</b>	0°F (TCC)
<b>Limits:</b>	LEL %: N/D UEL %: N/D
<b>Extinguishing Media:</b>	Dry chemical and carbon dioxide
<b>Unusual Fire or Explosion Hazards:</b>	None known
<b>Special Fire Fighting Procedures:</b>	Use self-contained breathing apparatus and protective fire fighting clothing.

**SECTION V. REACTIVITY DATA**

<b>Chemical Stability:</b>	Hazardous polymerization will not occur.
<b>Chemical Incompatibilities:</b>	Avoid contact with strong oxidizing agents.
<b>Conditions To Avoid:</b>	Avoid use of any ignition sources near spill.
<b>Hazardous Decomposition Products:</b>	Carbon monoxide and carbon dioxide.

**SECTION VI. HEALTH HAZARD INFORMATION**

**Carcinogenicity:** This product is not considered a carcinogen.  
**Medical conditions which may be aggravated by contact:** Predisposition to allergic contact dermatitis.  
**Primary entry route(s):** Inhalation, skin contact, eye contact, ingestion.

## SECTION VI. HEALTH HAZARD INFORMATION (cont.)

### Signs and symptoms of overexposure:

- Eye Contact:** May cause slight eye irritation.  
**Skin Contact:** Prolonged exposure may cause irritation.  
**Inhalation:** Prolonged inhalation of aerosol/vapor may result in drowsiness, headache and uncoordination if used extensively in absence of general ventilation.

### First Aid:

- Eye Contact:** Flush eyes with copious amounts of water; see physician.  
**Skin Contact:** Wash skin with mild soap and water.  
**Inhalation:** Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, oxygen should be administered by qualified personnel. See a physician.  
**Ingestion:** Induce vomiting if large volume is ingested. See physician immediately.

## SECTION VII. SPILL, LEAK AND DISPOSAL PROCEDURES

**Spill/Leak Procedures:** Avoid use of any ignition source near spill. Contain product with inert material or absorbent medium such as activated carbon or kitty litter.

**Waste Management/Disposal:** Hazardous substances cleaned with this product may be considered hazardous waste. Dispose of hazardous waste in accordance with all local, state and federal regulations.

## SECTION VIII. SPECIAL PROTECTION INFORMATION

### Personal Protective Equipment:

- Eye Protection:** Goggles  
**Gloves:** Chemically impermeable gloves  
**Respirator:** Not required in presence of good general ventilation. If conditions warrant, use NIOSH approved respirator.

### Workplace Considerations:

- Ventilation:** General mechanical ventilation.  
**Safety Stations:** Emergency eye wash and shower stations.

## SECTION IX. SPECIAL PRECAUTIONS

**Danger: Extremely Flammable!** Harmful if swallowed. Contents under pressure.

**Special Handling/Storage:** Store in original container in well ventilated areas at temperatures below 140°F. Store in closed containers away from heat or sources of ignition and oxidizing materials. Protect against physical damage to containers.

**Other Precautions:** Avoid contact with skin, eyes and mucous membranes.

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