

# MATERIAL SAFETY DATA SHEET



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**PRODUCT NAME: BIOGENIC REGENT, Solvent Degreaser**

REVISION DATE: 03/25/2002 REVISION NUMBER: 3  
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## 1. CHEMICAL PRODUCT

MSDS FORM NUMBER: 4124  
NFPA/HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 1/1  
Fire: 2/2  
Reactivity: 0/0  
Special/Protective None/B  
Equipment:

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Hazardous Components

PRODUCT COMPOSITION CAS REGISTRATION NO.	APPROX. WEIGHT PERCENT	ACGIH TLV	ACGIH UNIT	OSHA PEL	OSHA UNIT
Aliphatic hydrocarbon blend 69430-33-7	75 min.	NE		NE	
d-Limonene - combustible 5989-27-5	25 max.	NA	NA	NA	NA

## 3. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 350 - 410 F (C) NA  
VAPOR PRESSURE: 0.5 mm Hg @ 75 F  
VAPOR DENSITY (AIR=1): > 5  
SOLUBILITY IN WATER: INSOLUBLE  
SPECIFIC GRAVITY: 0.765 - 0.775  
VOC Content (%): 100 @ 110 C  
EVAPORATION RATE: < (BuAc = 1) : 1.26  
PH: NA  
APPEARANCE AND ODOR: Clear, colorless liquid. Citrus odor.

## 4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F): 153 F (TCC) (C): NA

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**METHOD:** TCC

**FLAMMABLE LIMITS IN AIR - LOWER (%):** ~ 0.5%

**FLAMMABLE LIMITS IN AIR - UPPER (%):** ~ 5.0% min.

**EXTINGUISHING MEDIA:** Water fog, carbon dioxide, foam, dry chemical.

**FIRE FIGHTING PROCEDURES:** Combustible. Fire-fighters should wear self-contained breathing apparatus and full protective clothing when fighting chemical fires. Cool exposed containers with water spray. "Empty" containers retain product residue (liquid and/or vapor) and can be dangerous. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH.

### 5. STABILITY AND REACTIVITY

**STABILITY DATA:** STABLE

**POLYMERIZATION:** Will Not Occur.

**HAZARDOUS DECOMPOSITION:** Incomplete combustion produces: Fumes. Smoke. Soot. Carbon Dioxide. Carbon Monoxide.

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong acids and oxidizers.

**CONDITIONS/HAZARDS TO AVOID:** Open flames. Welding arcs.

### 6. HAZARDS IDENTIFICATION

#### EFFECTS FROM ACUTE EXPOSURE:

##### **INGESTION:**

Causes vomiting, nausea, and diarrhea. Aspiration of ingested or vomited liquid into the lungs may cause chemical pneumonia, which can be fatal. May cause central nervous system effects.

##### **SKIN CONTACT:**

Prolonged contact may lead to irritation and dermatitis.

##### **INHALATION:**

Inhalation of spray mists irritating to nose and throat; possible nausea, dizziness. May cause Central Nervous System effects.

##### **EYE CONTACT:**

May cause mild eye irritation.

##### **CHRONIC EFFECTS:**

None expected in normal use.

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### **EFFECTS/CARCINOGENICITY:**

None listed under OSHA, IARC, or NTP.

### **ROUTES OF ENTRY:**

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation.

### **EMERGENCY AND FIRST AID MEASURES:**

**INGESTION:** DO NOT INDUCE VOMITING. Get immediate medical attention. **SKIN:** Wash with soap and water. Remove contaminated clothing and launder before reuse. Get medical attention. **INHALATION:** Move person to fresh air. Aid breathing if necessary. **EYES:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists.

**NOTES TO PHYSICIAN:** None.

## 7. HANDLING AND STORAGE

### **SPILL PROCEDURES:**

**SMALL SPILLS:** Mop up all possible. Flush residue with water.

**LARGE SPILLS:** Dike to contain. Pick up with absorbant material. Put in suitable container for disposal. Flush remainder with water.

### **WASTE DISPOSAL METHODS:**

Dispose in accordance with Federal, State and Local regulations.

### **PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:**

Caution: Use only with adequate ventilation. Do not store near heat, sparks or flame. Do not store near oxidizing agents. Store only in original container and keep closed. Avoid contact with skin and eyes. Do not breathe mist or vapors.

### **OTHER PRECAUTIONS:**

Do not reuse container. Keep out of reach of children.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>EXPOSURE CONTROLS:</b>	Use in a well ventilated area.
<b>RESPIRATORY PROTECTION:</b>	None normally required. Use NIOSH approved organic vapor respirator as needed if spray mist or vapors exceed PEL or TLV.
<b>PROTECTIVE GLOVES:</b>	Solvent resistant material such as Viton, neoprene or nitrile rubber.
<b>EYE PROTECTION:</b>	Safety Glasses. Goggles.
<b>OTHER PERSONAL PROTECTION EQUIPMENT:</b>	Appropriate protective clothing as needed to prevent skin contact.
<b>VENTILATION:</b>	General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Use non-sparking equipment.

Health and safety information presented on this form is generally applicable at recommended dilutions, varying only in degree. This information was compiled from current, reliable sources and is believed to be correct. As data, and/or regulations change, and conditions of use and handling are beyond our control, no warranty, express or implied, is made as to completeness or continuing accuracy of this information.

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**\*\*\* END OF MSDS \*\*\***