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(W)

#30896

MATERIAL SAFETY DATA SHEET

Complies with OSHA's 29 CFR 1910.1200 and State Hazard Communication Standards.

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SECTION 1

PRODUCT IDENTITY: BIOGENIC SE 377C, Solvent Emulsion Degreaser

DATE PREPARED: 11/13/91

NFPA/HMIS HAZARD CODES (minimal = 0; slight = 1; moderate = 2; serious = 3; severe = 4)
Health: 1/1 Fire: 2/2 Reactivity: 0/0 Special: NA

SECTION 2: HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

<u>HAZARDOUS COMPONENTS</u>	<u>CAS #</u>	<u>OSHA-PEL</u>	<u>ACGIH-TLV</u>	<u>% BY WT.</u>
d-Limonene - combustible liquid	5989-27-5	None Est.	None Est.	30 max.
Detergent mixture - eye irritant	Not Available	None Est.	None Est.	20 max.
Diethylene glycol butyl ether*	112-34-5	None Est.**	None Est.**	14

*SARA Title III Section 313 reportable as Glycol Ether category
**Supplier recommendation 35 ppm

Also contains propanediol and water

SECTION 3: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT: 212°F
VAPOR PRESSURE: 5.6 mm Hg @ 68°F
VAPOR DENSITY (air = 1): Heavier
SOLUBILITY IN WATER: Emulsifies

SPECIFIC GRAVITY: 0.999
PERCENT VOLATILE: 83% @ 110°C
EVAPORATION RATE: As water
pH: 12.2

APPEARANCE AND ODOR: Clear yellow liquid; citrus odor.

SECTION 4: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 122°F TCC (OSHA); 160°F COC
FLAMMABLE LIMITS: Lel 0.7%; Uel 24% (approx.)

EXTINGUISHING MEDIA: Foam, dry chemical, carbon dioxide, water fog or spray.

SPECIAL FIREFIGHTING PROCEDURES: As for any combustible hydrocarbon. Use air supplied breathing equipment. Avoid breathing vapor or fumes. Cool exposed containers with water spray.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Combustible liquid. Do not store or mix with strong oxidants. Empty containers may retain ignitable product residues and vapors. Do not pressurize, cut, or weld on or near containers.

SECTION 5: REACTIVITY DATA

STABILITY: Stable
CONDITIONS TO AVOID: Open flames or welding arcs.
HAZARDOUS POLYMERIZATION: Will not occur
INCOMPATIBILITY: Strong acids and oxidizing agents.
HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion produces vapor, soot, carbon dioxide and carbon monoxide.

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SECTION 6: HEALTH HAZARD DATA

ROUTES OF ENTRY/SIGNS AND SYMPTOMS OF EXPOSURE: ACUTE: Eye irritant. Prolonged skin contact can cause irritation or dermatitis. Glycol ether component can be absorbed through skin; harmful amounts not expected in normal use. Excess inhalation may cause nose and respiratory irritation; headache, nausea, dizziness. Ingestion: irritation, nausea, vomiting; possible dizziness; possible aspiration hazard from inhalation of vomited or swallowed liquid.

CHRONIC EFFECTS: None expected in normal use. Long term overexposure to some glycol ethers by skin absorption or inhalation may cause kidney, liver, or blood effects.

CARCINOGENS: None listed under OSHA, IARC or NTP. Recent NTP testing with daily very high oral doses of d-Limonene has created kidney tumors in one species of male laboratory rat. When handled as recommended, d-Limonene is not expected to pose a measurable carcinogenic risk to humans.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Respiratory (from inhalation); skin contact may aggravate existing dermatitis.

EMERGENCY AND FIRST AID PROCEDURES: Eyes: immediately flush with water for 15 minutes while holding eyes open. Remove contact lens if worn. Skin: wash with soap and water. Remove contaminated clothing. Inhalation: remove to fresh air. Aid breathing as needed. Ingestion: DO NOT INDUCE VOMITING. Drink several glasses of water or milk. Get medical attention for eye, ingestion, or if irritation persists.

SECTION 7: PRECAUTIONS FOR SAFE HANDLING AND USE

SPILL OR LEAK PROCEDURES: Ventilate area and use appropriate protective equipment.

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

LARGE SPILLS: Dike to contain liquid, reclaim all possible. Absorb remainder on inert material and place in closed containers.

WASTE DISPOSAL METHOD: Dispose of in accordance with Federal, State and local regulations. Product contains no listed 40 CFR Part 261 Subpart D wastes. If disposed of as received, product is an ignitable hazardous waste due to flash point.

HANDLING AND STORING: Use with adequate ventilation. Avoid breathing spray mists or vapors. Do not store or handle near heat, sparks, flame or strong oxidants. Store only in original container and keep closed. Do not reuse empty container.

OTHER PRECAUTIONS: Avoid prolonged or repeated skin contact. Wash contaminated clothing before reuse.

SECTION 8: CONTROL MEASURES

RESPIRATORY PROTECTION: Not normally needed. NIOSH approved organic vapor respirator in enclosed area or if spray or vapor in air causes irritation.

VENTILATION: Local exhaust as needed in enclosed area or if vapor spray in air. Use nonsparking equipment.

GLOVES: Solvent resistant material such as Viton, neoprene or nitrile.

EYE PROTECTION: Chemical safety glasses or goggles.

OTHER PROTECTIVE EQUIPMENT: As required to prevent prolonged or repeated skin contact.

WORK/HYGIENIC PRACTICES: Wash skin contact areas immediately. Wear solvent resistant gloves for other than incidental hand contact while using product or solutions. Remove and launder contaminated clothing before reuse.

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.