

MATERIAL SAFETY DATA SHEET



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PRODUCT NAME: **BIOGENIC SE 372, Maximum Strength Carbon and Grease Remover**

REVISION DATE: 07/27/2000 **REVISION NUMBER:** 1
DATE PRINTED: 03/13/2002 **PREPARED BY:** Walter Friedlander

1. CHEMICAL PRODUCT

MSDS FORM NUMBER: 4030A
NFPA/HMIS HAZARD CODES (minimal=0; slight=1; moderate=2; serious=3; severe=4)

Health: 2/2
Fire: 2/2
Reactivity: 0/0
Special/Protective Equipment: ALK/B

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components

PRODUCT COMPOSITION CAS REGISTRATION NO.	APPROX. WEIGHT PERCENT	ACGIH TLV	ACGIH UNIT	OSHA PEL	OSHA UNIT
d-Limonene - combustible 5989-27-5	50 max.	NA	NA	NA	NA
Detergents MIXTURE	30 max.	NA	NA	NA	NA
Ethanolamine 141-43-5	15 max.	3	PPM	3	PPM
Diethylene glycol butyl ether 112-34-5	14	NA	NA	NA	NA

3. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 212 F (C) NA
VAPOR PRESSURE: 2 mm Hg @ 75 F (d-Limonene)
VAPOR DENSITY (AIR=1): > 1
SOLUBILITY IN WATER: Emulsifies
SPECIFIC GRAVITY: 0.966
VOC Content (%): 80 @ 110 C
EVAPORATION RATE: (BuAc = 1) : 1.26
PH: 11 +/- 0.5
APPEARANCE AND ODOR: Amber liquid. Citrus odor.

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4. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (F):	117 F (TCC) 150 F (COC) (C): NA
METHOD:	TCC COC
FLAMMABLE LIMITS IN AIR - LOWER (%):	0.7%
FLAMMABLE LIMITS IN AIR - UPPER (%):	6.1%
EXTINGUISHING MEDIA:	Water fog, carbon dioxide, foam, dry chemical.
FIRE FIGHTING PROCEDURES:	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. Carbon Monoxide. Carbon Dioxide.
INCOMPATIBILITY (MATERIALS TO AVOID):	Do not mix with: Acids. Strong oxidents, such as nitric acid, peroxides, or hypochlorites.
CONDITIONS/HAZARDS TO AVOID:	Open flames. Welding arcs.

6. HAZARDS IDENTIFICATION

EFFECTS FROM ACUTE EXPOSURE:

INGESTION:

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

SKIN CONTACT:

Prolonged contact may lead to irritation and dermatitis. May cause skin burns. Glycol ether component can be absorbed through the skin.

INHALATION:

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

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EYE CONTACT:

Causes severe eye irritation. MAY CAUSE EYE BURNS.

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 based on animal testing.

EFFECTS/CARCINOGENICITY:

None listed under OSHA, IARC, or NTP. Contains an ingredient which has been determined by NTP to be an animal carcinogen with no known relevance to humans.

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 if irritation persists. **INHALATION:** If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention. **EYES:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

NOTES TO PHYSICIAN: None.

7. HANDLING AND STORAGE

SPILL PROCEDURES:

SMALL SPILLS: Reclaim as much as 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:

Avoid contact with skin and eyes. Do not breathe mist or vapors. 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.

OTHER PRECAUTIONS:

Do not reuse container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE CONTROLS: None known.

RESPIRATORY PROTECTION: None normally required. Use NIOSH approved organic vapor respirator as needed if spray mist or vapors exceed PEL or TLV.

PROTECTIVE GLOVES: Chemical resistant gloves. Neoprene. Viton gloves. Nitrile gloves.

EYE PROTECTION: Goggles. Safety Glasses.

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OTHER PERSONAL PROTECTION EQUIPMENT: Appropriate protective clothing as needed to prevent skin contact.

VENTILATION: General mechanical and/or local exhaust as needed to meet exposure limits if mist in air. Explosion-proof 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.

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