

MATERIAL SAFETY DATA SHEET



2621 7th Ave. South

Estherville, Iowa 51334 PH: (712) 362-7737

PRODUCT NAME: BREAKTHROUGH!
LIQUID SUPER CONCENTRATE

MSDS NO: 53720.00

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FOR CHEMICAL EMERGENCY, SPILL,
LEAK, FIRE, EXPOSURE CALL:
CHEMTREC 1-800-424-9300 OUTSIDE US
CALL 1-703-527-3887

FOR MEDICAL EMERGENCY CALL
ROCKY MOUNTAIN POISON CENTER:
1-303-623-5716

HEALTH HAZARD: (0 None > 4 Extreme)
Health = 2
Flammability = 1
Reactivity = 0

SECTION 1 - PRODUCT IDENTIFICATION

DATE PREPARED: September 5, 2000

SUPERSEDES: October 1, 1997

PREPARED BY: Dean F. Fernholz

D.O.T. SHIPPING CLASS: Class 55, Non-Hazardous Cleaning Compound.

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	CAS. NO.	OSHA PEL	ACGIH TLV	ORAL LD50 RAT	Per-Cent
Ethoxylated Alcohol	68439-45-2	NE	NE	5100 mg/kg	20-40%
Ethylene Glycol Monobutyl Ether *	111-76-2	25 ppm Skin	25 ppm Skin	470 mg/kg	30-60%
Sodium Dodecylbenzene Sulfonate	25155-30-0	NE	NE	2600 mg/kg	20-40%

* subject to reporting requirements of Section 313 of Title III of SARA and 40 CFR Part 372

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: 340 (Deg. F.)

SOLUBILITY IN WATER: Soluble

SPECIFIC GRAVITY: 1.03

VAPOR PRESSURE mm/hg: .6@ 70 (Deg. F.)

VAPOR DENSITY (Air=1): 4.1

REACTIVITY IN WATER: None

pH 5% SOLUTION: 7 - 9

MELTING POINT: > 32 (Deg. F.)

APPEARANCE AND ODOR: Reddish-orange liquid, ether-like odor

SECTION 4 - FIRE & EXPLOSION DATA

FLASH POINT: 154 (Deg. F.)

FLAMMABILITY LIMITS IN AIR % BY VOLUME:

METHOD USED: PMCC

LEL LOWER: 1.1

UEL UPPER: 10.6

AUTO-IGNITION TEMPERATURE: NA

EXTINGUISHER MEDIA: Water, Dry Chemical, Carbon Dioxide, Foam

SPECIAL FIRE FIGHTING PROCEDURES: None

UNUSUAL FIRE & EXPLOSION HAZARDS: None

SECTION 5 - PHYSICAL HAZARDS (REACTIVITY DATA)

STABILITY: Stable

INCOMPATIBILITY (MATERIALS TO AVOID): Oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS: NA

HAZARDOUS POLYMERIZATION: Will NOT occur

CONDITIONS TO AVOID: NA

BREAKTHROUGH! LIQUID SUPER CONCENTRATE

SECTION 6 - HEALTH HAZARDS

ACUTE: Headaches, nausea, dizziness

CHRONIC: Anemia, liver & kidney damage

SIGNS & SYMPTOMS OF EXPOSURE: Eye nose and throat irritation; clouding of cornea.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NA

CARCINOGEN OR POTENTIAL CARCINOGENS: OSHA: None NTP: None IARC: None ACGIH: None

EMERGENCY FIRST AID:

EYES: Immediately flush with water for 15 minutes. GET MEDICAL ATTENTION IMMEDIATELY!

SKIN: Wash thoroughly with water. Get medical attention if irritation persists.

INHALATION: NA

INGESTION: Induce vomiting, call a physician immediately. Never give anything by mouth to an unconscious person.

ROUTES OF ENTRY:

INHALATION: Dizziness, headache, nausea, irritation

EYES: Eye irritation

SKIN: Skin irritation

INGESTION: Stomach irritation, nose and throat irritation.

SECTION 7 - SPECIAL PRECAUTIONS & SPILL / LEAK PROCEDURES

HANDLING & STORAGE: Store in a cool dry area. Keep closed when not in use.

OTHER PRECAUTIONS: Normal good housekeeping practices.

IN CASE OF SPILL: Shut off leak, if this can be done without injury. Flush area with water. Large spills should be diked with earth; then pump to a salvage tank.

WASTE DISPOSAL: Absorb on dry earth or sand. Small spills can be flushed to sewer with plenty of water. Dispose of in accordance with all Federal, State and Local pollution control regulations.

SECTION 8 - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: Avoid vapor accumulation

VENTILATION: Use with adequate ventilation.

PROTECTIVE GLOVES: Rubber or plastic

EYE PROTECTION: Safety Glasses or Goggles

OTHER: Waterproof suit and boots may be worn

HYGIENIC PRACTICES: Wash thoroughly after handling.

SECTION 9 - COMMUNITY RIGHT TO KNOW LIST

	CHEMICAL NAME:	C.A.S. NO.
1.	Ethylene Glycol Monobutyl Ether	111-76-2
2.	Ethoxylated Alcohol	68439-45-2
3.	Sodium Dodecylbenzene Sulfonate	25155-30-0

NA = Not Applicable

NE = None Established

The information provided in this Material Safety Data Sheet has been compiled from our experience and data presented in various technical publications. It is the users responsibility to determine the suitability of this information for the adoption of safety precautions as may be necessary. We reserve the right to revise Material Safety Data Sheets from time to time as new technical information becomes available. The information herein is furnished without warranty of any kind.