



Rantec Corporation

MATERIAL SAFETY DATA SHEET

PRODUCT NAME: **LEB-4 (Liquid Enzyme Breaker)**

CHEMICAL NAME: Proprietary

CHEMICAL FAMILY: Propylene Glycol Solution/Enzyme Protein

FORMULA: Proprietary

DOT HAZARD CLASS: None

DOT PROPER SHIPPING NAME: Non-Regulated

SECTION I

MANUFACTURER'S NAME:

DATE Revised: 3 May 2012

RANTEC CORPORATION

PREPARED BY:

PO BOX 729

Lloyd Marsden, Plant Manager

RANCHESTER, WY 82839

EMERGENCY PHONE: 1-307-655-9565

SECTION II Hazardous Ingredients Information

LEB contains no hazardous ingredients.

SECTION III Physical Characteristics

BOILING POINT: 220° F

SPECIFIC GRAVITY:(H₂O=1):1.05 to 1.08

VAPOR PRESSURE: Unknown

VAPOR DENSITY: Unknown

EVAPORATION RATE: Unknown

MELTING POINT: Less than 32° F

SOLUBILITY IN WATER: Complete.

APPEARANCE AND ODOR: Light tan liquid with glycol and fermentation odor.

SECTION IV Fire and Explosion Hazard Data

Non-Flammable

SECTION V Reactivity Data

STABILITY: Stable CONDITIONS TO AVOID: High temperatures

INCOMPATIBILITY: Strong acids, bases, oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None

HAZARDOUS POLYMERIZATION: Will Not Occur.

SECTION VI Health Hazard Data

ROUTES OF ENTRY: Skin, Ingestion

HEALTH HAZARDS:

1. Eyes: May cause eye irritation upon direct contact depending on individual sensitivity. Remove material from eyes by flushing with fresh water. Consult physician if irritation persists.
2. Skin: Essentially non-toxic. May produce a drying effect which can cause irritation on prolonged or repeated exposure. Wash skin with soap and water. Use a suitable skin lotion.

3. Ingestion: Ingestion of this material may produce toxic effects. If ingested, consult a physician.

CHRONIC OVEREXPOSURE: None known to occur. Individuals with a history of respiratory allergic responses may have respiratory conditions such as asthma intensified by exposure to dust from this product if allowed to dry.

CARCINOGENICITY: None of the ingredients are known to be carcinogenic.

SECTION VII Precautions for Safe Handling And Use

STEPS TO BE TAKEN IN CASE OF SPILL: Stop flow of material, surround spill to prevent spread. Do not allow material to dry on floor or other surfaces as dust may be irritating.

SPILL HANDLING: Use pumps and containers as necessary to recover material. Salvage uncontaminated material, flush balance to drain. Completely flush spill area to avoid drying and dustiness.

SECTION VIII Control Measures

RESPIRATORY PROTECTION: Not required.

VENTILATION: N/A.

PROTECTIVE GLOVES: Rubber, plastic, leather.

EYE PROTECTION: Safety glasses.

WORK/HYGIENIC PRACTICES: Avoid contact and control spills. Remove material that may come in personal contact. Keep work area clear of spilled material and avoid contact.

Personnel should be tested for protein enzyme sensitivity prior to work assignment in handling material.