



3. HAZARDS IDENTIFICATION (Continued)

**POTENTIAL HEALTH EFFECTS:**

ROUTE(S) OF ENTRY ..... : Skin Contact; Eye Contact

**HUMAN EFFECTS AND SYMPTOMS OF OVEREXPOSURE:**

Data has not been established for this product as a whole. The data listed in this section is based on the hazards of the individual components.

**ACUTE EFFECTS OF EXPOSURE..... :** This product is considered to be low in volatility at room temperature and therefore not likely to present an inhalation exposure hazard under normal working conditions using good industrial hygiene practices. Direct eye contact may cause very minor irritation but no corneal injury, if symptoms occur they may include tearing and slight reddening of the eye. This product under normal working conditions is expected to be non-irritating to the skin and only very slightly toxic by ingestion. If large quantities of the vegetable oil component of this product is ingested it may cause some irritation of the gastrointestinal tract, symptoms would include diarrhea and possibly some cramping.

**CHRONIC EFFECTS OF EXPOSURE... :** No information was found concerning any adverse chronic health effects from overexposure to this product. However, it is reasonable to assume that upon repeated or prolonged contact, slight skin irritation may be possible (mechanical in nature) .

**CARCINOGENICITY..... :** The components of this product are not listed by NTP, IARC or regulated as a carcinogen by OSHA.

**MEDICAL CONDITIONS**

**AGGRAVATED BY EXPOSURE..... :** None reported. However, prolonged and/or repeated contact may cause allergic skin reactions.

**EXPOSURE LIMITS..... :** Not established for this product.

4. **FIRST AID MEASURES:**

**FIRST AID FOR EYES..... :** Flush eyes with large amounts of lukewarm (not hot) water for at least 15 minutes, use fingers to occasionally lift eyelids to insure that all of the chemical is being rinsed out of the eye. Seek medical attention if ill effects or irritation occurs.

**FIRST AID FOR SKIN... .. :** Remove all contaminated clothing and shoes. Wash skin thoroughly with soap and water. Wash clothing and clean shoes before wearing again. If irritation should develop or persist contact a physician.

**4. FIRST AID MEASURES (Continued)**

FIRST AID FOR INHALATION: Remove to fresh air if breathing becomes difficult. If breathing has stopped, administer artificial respiration. If breathing is still difficult oxygen may be administered (to be done by qualified medical personnel only). Consult a physician.

FIRST AID FOR INGESTION.: Not likely a problem, but if ingested, give two glasses of water for dilution but do not induce vomiting. Never give anything by mouth to an unconscious person. Seek medical attention immediately. If vomiting should occur keep head below hip level to prevent aspiration of fluid into the lungs.

NOTE TO PHYSICIAN .....: Treat any ill effects symptomatically.

**5. FIRE FIGHTING MEASURES:**

FLASH POINT ..... : 428°F (220° C) Pinsky-Martens Closed Cup  
(ASTM D-93)

AUTO-IGNITION TEMPERATURE ..... : Not Established

EXTINGUISHING MEDIA ..... : Water; Carbon Dioxide; Dry Chemical; Foam

SPECIAL FIRE FIGHTING PROCEDURES: Full emergency equipment with self-contained breathing apparatus and full protective clothing should be worn by fire-fighters. Use cold water spray to cool fire-exposed containers to minimize risk of rupture. Material supports combustion. During a fire, irritating and toxic gases such as carbon monoxide may be generated by thermal decomposition or combustion. Do not spray fire directly. A solid stream of water directed into the hot burning liquid could cause frothing.

UNUSUAL FIRE / EXPLOSION HAZARDS: None Reported

**6. ACCIDENTAL RELEASE MEASURES:**

SPELL OR LEAK PROCEDURES..... : Remove all sources of flames, heating elements, gas engines, etc. Emergency clean-up personnel should wear self-contained breathing apparatus and protective clothing. If material is released or spilled, dam up to prevent spreading and contamination of surface waters, ground waters and drinking supplies. Notify local health authorities and other appropriate agencies if such contamination should occur. Spilled material should be contained and pumped into steel containers for recovery or disposal. Vermiculite absorbent should be spread over the spill area to absorb as much of the remaining product as possible. Scoop up solid absorbent for waste disposal. The spill area should then be washed down with soap and water to dilute and remove remaining traces of material. Ventilate area to remove the remaining vapors.

**7. HANDLING AND STORAGE:**

STORAGE TEMPERATURE(MIN/MAX): Ambient

SHELF LIFE .....: 36 months

SPECIAL SENSITIVITY .....: Material is hygroscopic and may absorb small amounts of atmospheric moisture.

HANDLING/STORAGE PRECAUTIONS: Containers should be tightly closed to prevent contamination with foreign materials and moisture. Materials not considered hazardous under normal handling operations, but reasonable care should be exercised. Avoid skin and eye contact. Avoid breathing vapors if generated. If contamination with isocyanates is suspected, do not reseal containers. Employee education and training in safe handling of this product are required under the OSHA Hazard Communication Standard.

**8. PERSONAL PROTECTION:**

EYE PROTECTION REQUIREMENTS .....: Chemical safety goggles should be worn. Plastic face shields should be worn in addition to safety goggles for complete face protection. Contact lenses should not be worn by persons who work with this product.

SKIN PROTECTION REQUIREMENTS... .....: Chemically resistant gloves recommended (neoprene). Barrier may be used.

VENTILATION REQUIREMENTS .....: Good general ventilation should be maintained (typically 10 air changes per hour). Ventilation rates should be matched to conditions.

RESPIRATOR REQUIREMENTS .....: If automated ventilation systems do not maintain air quality to an acceptable level. If a respirator becomes necessary, the specific respirator selected must be based on contamination levels found in the work place and must not exceed the working limits of the respirator. An air purifying respirator equipped with full-face organic vapor cartridge can be used if vapors are detected or are irritating.

ADDITIONAL PROTECTIVE MEASURES .....: Decontamination facilities, eye bath, and emergency showers are recommended.

**9. PHYSICAL AND CHEMICAL PROPERTIES:**

PHYSICAL FORM... .....: Liquid

COLOR .....: Pale yellow to Amber

ODOR .....: Slight

ODOR THRESHOLD.....: Not Established

MOLECULAR WEIGHT .....: Not Established

pH .....: 6.0

9. PHYSICAL AND CHEMICAL PROPERTIES (Continued)

BOILING POINT ..... : Not Established  
MELTING/FREEZING POINT..... : Not Established  
VISCOSITY..... : 800 cps @ 77°F (25°C)  
SOLUBILITY IN WATER ..... : Insoluble  
SPECIFIC GRAVITY..... : 0.985 @ 77°F (25°C)  
BULK DENSITY..... : Approximately 8.20 lbs/gal  
VAPOR PRESSURE..... : Not Established  
VAPOR DENSITY.....Not Established (Air = 1)  
VOC BY WEIGHT .....None  
HOC BY WEIGHT.. .....None

10. STABILITY AND REACTIVITY:

STABILITY..... : This is a stable material.  
HAZARDOUS POLYMERIZATION...: will not occur.  
INCOMPATIBILITIES..... : Oxidizing materials and isocyanates.  
INSTABILITY CONDITIONS..... : None Reported  
DECOMPOSITION TEMPERATURE..: Not Established  
DECOMPOSITION PRODUCTS..... : By fire - CO<sub>2</sub>, CO, and other aliphatic fragments  
which have not been determined.

11. TOXICOLOGICAL INFORMATION:

ACUTE ORAL EFFECTS (LD<sub>50</sub>): (Rat) 2600mg/kg.  
ACUTE DERMAL TOXICITY (LD<sub>50</sub>): (Rat) 2600 mg/kg.  
INHALATION TOXICITY (LC<sub>50</sub>): Respiratory irritant.  
SENSITIZATION: Sensitizer  
SKIN IRRITATION: (Rabbit) Extreme irritant; corrosive.  
EYE IRRITATION: Severe eye irritant.

12. ECOLOGICAL INFORMATION:

ECOLOGY DATA FOR: Vegetable Oil  
AQUATIC TOXICITY..... : TL<sub>M</sub> 96: Greater than 100 ppm

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD..... : Waste must be incinerated or disposed of in  
compliance with federal, state or local environmental control regulations.

13. DISPOSAL CONSIDERATIONS (Continued)

If incinerated, toxic and corrosive combustion gases must be properly handled.  
EMPTY CONTAINER PRECAUTIONS.: 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. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

14. **TRANSPORTATION INFORMATION:**

TECHNICAL SHIPPING NAME..... : Polyether polyol / Aliphatic Ester Blend  
FREIGHT CLASS BULK..... : Polypropylene Glycol  
FREIGHT CLASS PACKAGE..... : Polypropylene Glycol  
PRODUCT LABEL..... : Product Label Established

DOT (DOMESTIC SURFACE)

HAZARD CLASS OR DIVISION..... : Non-Regulated

IMO / IMDG CODE (OCEAN)

HAZARD CLASS DIVISION NUMBER. . . : Non-Regulated

ICAO / IATA (AIR)

HAZARD CLASS DIVISION NUMBER... : Non-Regulated

15. **REGULATORY INFORMATION:**

OSHA STATUS..... : This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA STATUS. . . . : CERCLA On TSCA Inventory

REPORTABLE QUANTITY..: SARA None Reported

TITLE III:

SECTION 302 EXTREMELY

HAZARDOUS SUBSTANCES..: None

SECTION 311/312

HAZARD CATEGORIES .... : Immediate Health Hazard

SECTION 313

TOXIC CHEMICALS ..... : None

RCRA STATUS..... : If discarded in its purchased form, this product would not be a hazardous waste either by listing or by characteristic. However, under RCRA, it is



16. OTHER INFORMATION (Continued)

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