Material Safety Data Sheet

Section 1 – Product Identification

Common Name: Crude Glycerol/Glycerin
Cas: 56-81-5
RTECS #: MA8050000

Section 2 – Ingredients and Hazardous Classification

Typical Composition:

<table>
<thead>
<tr>
<th>OSHA PEL</th>
<th>ACGH/TLV</th>
<th>Percent</th>
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<tbody>
<tr>
<td>15 MG/M3 TDUST</td>
<td>10 MG/M3 (MIST) 9293</td>
<td>99</td>
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</table>

This product contains no hazardous materials.
SARA Title III, Section 313: Not Listed

Section 3 – Physical/Chemical Characteristics

HCC: N1
B.P. Text: 554F,290C
M.P./F.P Text: 64.4F,18.0C
Vapor Pres: 0.0025 MM
Vapor Density: 3.17
Spec Gravity: 1.25
Solubility in Water: MISCIBLE IN WATER.
Appearance and Odor: light to dark yellow clear liquid / light musty odor

Section 4 - Fire and Explosion Hazard Data

Flash Point Method: CC
Flash Point Text: 320F,160C
Autoignition Temp Text: 400 C
Lower Limits: 0.9
Extinguishing Media: USE ANY MEANS SUITABLE FOR EXTINGUISHING FIRE. WATER SPRAY MAY BE USED TO EXTINGUISH SURROUNDING FIRE & COOL CONTAINERS.
Section 5 – Reactivity Data

Stability Indicator: YES
Stability Condition To Avoid: GLYCEROL DECOMPOSES UPON HEATING ABOVE 290°C, FORMING CORROSIVE GAS (ACROLEIN).

Materials To Avoid: STRONG OXIDIZERS. CAN REACT VIOLENTLY WITH ACETIC ANHYDRIDE. CALCIUM OXYCHLORIDE, CHROMIUM OXIDES & ALKALI METAL HYDRIDE

Hazardous Decomposition Products: TOXIC GASES & VAPORS MAY BE RELEASED IF INVOLVED IN A FIRE.

Hazardous Polymerization Indicator: NO
Conditions To Avoid Polymerization: THIS SUBSTANCE DOES NOT POLYMERIZE.

Section 6 – Health Hazard Data

LD50 LC50 Mixture: ORAL LD50 (RAT) IS 12,600 MG/KG
Route Of Entry Inds - Inhalation: YES
Skin: YES
Ingestion: YES
Carcinogenicity Inds - NTP: NO
IARC: NO
OSHA: NO

Effects of Exposure: INHALATION-DUE TO LOW VAPOR PRESSURE, INHALATION OF THE VAPORS AT ROOM TEMPERATURE IS UNLIKELY. INHALATION OF MIST MAY CAUSE IRRITATION OF RESPIRATORY TRACT. INGESTION-LOW TOXICITY. SKIN CONTACT-MAY CAUSE IRRITATION. EYE CONTACT-MAY CAUSE IRRITATION. CHRONIC: MAY CAUSE KIDNEY INJURY.

Explanation Of Carcinogenicity: NOT CARCINOGENIC.

Signs And Symptoms Of Overexposure: INGESTION-MAY CAUSE NAUSEA, HEADACHE, DIARRHEA.

Medical Cond Aggravated By Exposure: PERSONS WITH PRE-EXISTING SKIN DISORDERS OR EYE PROBLEMS OR IMPAIRED LIVER OR KIDNEY FUNCTIONS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE.

First Aid:
INHAL: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION FOR ANY BREATHING DIFFICULTY.

INGESTION: GIVE WATER TO RINSE MOUTH & GET MEDICAL ATTENTION IMMEDIATELY. SKIN: REMOVE ANY CONTAMINATED CLOTHING. WASH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MIN. IF IRRITATION DEVELOPS, GET MEDICAL ATTENTION.

EYE: WASH THOROUGHLY WITH RUNNING WATER. GET MEDICAL ADVICE IF IRRITATION DEVELOPS.

Section 7 – Precautions for Safe handling and Use
Spill Release Procedures: VENTILATE AREA OF LEAK OR SPILL. CLEAN-UP PERSONNEL MAY REQUIRE PROTECTIVE CLOTHING. ABSORB LIQUID SPILL WITH DRY ABSORBENT. CONTAINERIZE UNSTABLE MATERIAL FOR DISPOSAL IN AN APPROVED WASTE FACILITY.
Waste Disposal Methods: ENSURE COMPLIANCE WITH LOCAL, STATE & FEDERAL REGULATIONS.
Handling And Storage Precautions: KEEP IN TIGHTLY CLOSED CONTAINERS, STORED IN A COOL, DRY, VENTILATED AREA. PROTECT AGAINST PHYSICAL DAMAGE. SEPARETE FROM INCOMPATIBLES.
Other Precautions: AS PART OF GOOD INDUSTRIAL AND PERSONAL HYGIENE & SAFETY PROCEDURES, AVOID ALL UNNECESSARY EXPOSURES TO THE CHEMICAL SUBSTANCE AND ENSURE PROMPT REMOVAL FROM SKIN, EYE AND CLOTHING.

Section 8 – Control Measures

Respiratory Protection: IF THE TLV IS EXCEEDED, A HALF MASK CHEMICAL CARTRIDGE RESPIRATOR MAY BE WORN UP TO TEN TIMES THE TLV OR THE MAXIMUM USE CONCENTRATION SPECIFIED BY THE RESPIRATOR SUPPLIER, WHICHEREVER IS LESS.
Ventilation: A SYSTEM OF LOCAL AND/OR GENERAL EXHAUST IS RECOMMENDED TO KEEP EMPLYEE EXPOSURE BELOW AIRBORNE EXPOSURE LIMITS.
Protective Gloves: WEAR PROTECTIVE GLOVES.
Eye Protection: USE CHEMICAL SAFETY GOGGLES.
Other Protective Equipment: WEAR CLEAN BODY COVERING. CONTACT LENSES SHOULD NOT BE WORN WHEN WORKING WITH THIS MATERIAL.
Work Hygienic Practices: MAINTAIN EYE WASH FOUNTAIN AND QUICK-DRENCH FACILITIES IN WORK AREA.
Supplemental Safety and Health: NONE

Section 9 – Transportation

DOT Code: N/A
DOT Shipping Name: Crude Glycerin
Other Regulatory: Listed in TSCA inventory

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Biodiesel Industries, Inc.
111 Saguaro Lane, Marathon, FL 33050 • 305-743-3942 • fax 305-743-3943
on-line at http://www.pipeline.to/biodiesel • email RTEALL@aol.com