



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL IDENTIFICATION

Trade Code : Refined Glycerin
Product Class : Glycerol
Chemicals Name : 1,2,3 – Propanetriol
Formula : C₃H₅(OH)₃

SECTION 2 – INGREDIENTS

Ingredients : CAS No. 56-81-5
MF: C₃H₈O₃
EC No. 200-289-5
Raw Material : Palm Oil/ Coconut Oil/ Palm Kernel Oil
Synonyms : Citifluor AF2, Glycyl Alcohol, Clyzerin Wasserfrei (German), Grocolene

SECTION 3 – PHYSICAL DATA

Boiling Point : 290 °C
Melting Point : 18.2 °C
Flash Point : 320 °F, 160 °C
Vapor Pressure : < 1 mm Hg
Appearance : Viscous colorless liquid
Odour : Odourless
Soluble in : Water Alcohol
Percent Volatility : Not applicable

SECTION 4 – HANDLING AND STORAGE

1. Wear appropriate NIOSH/ MSHA- approved respirator, chemical-resistant gloves, safety goggles, other protective clothing
 2. Mechanical Exhaust Required
 3. Safety shower and eye bath
 4. Keep tightly closed
 5. Store in a cool dry place
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SECTION 5 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

1. Do not breath vapor
2. Avoid Contact with eyes, skin and clothing
3. Avoid Prolonged or repeated exposure
4. Wash thoroughly after handling
5. Wash contaminated clothing before re-use



SECTION 6 – HAZARD IDENTIFICATION

1. Irritant
2. Irritating to eyes, respiratory system and skin
3. Target organ: Kidney

SECTION 7 – FIRST AID MEASURES

In case of:

1. Contact : Immediately flush skin with copious amount of water for at least 15 minutes while removing contaminated clothing and shoes
2. Contact with eyes : Rinse immediately with plenty of water and seek medical advice
3. Swallowing : Wash out mouth with water provided person is conscious, call a physician
4. Inhalation : Remove to fresh air. If not, breathing give artificial respiration. If breathing is difficult, give oxygen.

SECTION 8 – FIRE FIGHTING MEASURES

Extinguishing media

Water spray, carbon dioxide, dry chemical powder or appropriate foam

Special firefighting procedure

Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

Unusual fire and explosion hazards

Emits toxic fumes under fire conditions

SECTION 9 – ACCIDENTAL RELEASE MEASURES

1. Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves
2. Absorb on sand or vermiculite and place in closed containers for disposal
3. Ventilate area and wash spill site after material pickup is complete

SECTION 10 – STABILITY AND REACTIVITY

Conditions to avoid

Protect from moisture

Incompatibilities

Strong oxidizing agents, strong bases

Hazardous combustion or decomposition products

Carbon Monoxide, Carbon Dioxide

SECTION 11 – TOXICOLOGICAL INFORMATION

Acute Effects:

1. Irritating to mucous membranes and upper respiratory tract
2. May be harmful by inhalation, ingestion or skin absorption
3. Causes eyes and skin irritation
4. Prolonged exposure can cause nausea, headache and vomiting

SECTION 12 – ECOLOGICAL INFORMATION

Data Not Yet Available



SECTION 13 – DISPOSAL CONSIDERATION

1. Observe all Federal, State and Local Environmental Regulations
 2. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
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SECTION 14 – TRANSPORTATION INFORMATION

Land Transport: Not Classified

Maritime Transport: Not Classified

SECTION 15 – REGULATORY INFORMATION

European Information

R 36/ 38

S 26

S 36

Reviews, standards and regulations

ACGIH TLV-TWA 10 MG/ M3

OSHA PEL (GEN INDU): 8H TWA 15 MG/ M3, Total Dust

OSHA PEL (GEN INDU): 8H TWA 5 MG/M3, Respirable Fraction

OEL in Bulgaria, Colombia, Jordan, Korea, New Zealand, Singapore, Vietnam, check ACGIH TLV

EPA TSCA Section 8 (B) Chemical Inventory

EPA TSCA Test Submission (TSCATS) Data Base, December 1999

SECTION 16 – OTHER INFORMATION

The information and recommendations contained in this Data Sheet are believed to be accurate and represent the best information currently available to us. No warranty, guarantee or representation is made by us to the absolute correctness or sufficiency of the information and recommendations in this Data Sheet; nor can it be assumed that all possible safety measures are contained in this Data Sheet or other measures may not be required under varying circumstances.