



Green Kemikal

MATERIAL SAFETY DATA SHEET [MSDS]





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1.

IDENTIFICATION OF THE PRODUCT / PREPARATION AND COMPANY	
Commercial name	REFINED GLYCERINE 99.7% USP
Product name	Glycerine
Company	Greenkemikal Ilc.
Application	Cosmetics, food products, tobacco and paints

2.

HAZARDS IDENTIFICATION OF THE PRODUCT	
Human health risk inhalation	Not applicable at ambient temperature, vapour from heated product can cause irritation
Skin Contact	Not irritating.
Eye Contact	Can cause irritation
Environmental hazards	None identified.

3.

COMPOSITION/INFORMATION ON INGREDIENTS	
General chemical description	1,2,3 Propanetriol (Trihydroxypropane) Purity at least 99.7% Min.
CAS No.	56-81-5
EINECS No.	200-289-5
H.S Code	29054500
Physical Appearance	Clear ,Colorless liquid

4.

FIRST AID MEASURES	
General Information	In case of adverse health effects seek medical advice.
Inhalation	Remove to fresh air.
Skin contact	Wash off with plenty of water and soap.
Eye contact	Wash out with water without delay and obtain medical attention if any sensations persist.
Ingestion	Remove material from mouth. Drink plenty of water. If large amount Swallowed or symptoms develop obtain medical attention.

5.

FIRE – FIGHTING MEASURES	
Extinguishing media	Water spray, foam, dry powder, carbon dioxide.
Unsuitable extinguishing media	None
Specific hazards	Formation of acrolein, see point 3 above.
Protection of -fighters	Protective clothing and self-contained breathing equipment should be carried





6.

ACCIDENTAL RELEASE MEASURES	
General Information	Danger of slipping on escaped product.
Personal precautions	No special precautions required.
Environmental precautions	Minimise contamination of drains, surface and ground waters.
Methods for cleaning up	Transfer product to suitably labelled containers for disposal at an approved site. Residues and small spillage may be washed away with water and detergent.

7.

HANDLING AND STORAGE	
Handling	No specific protective measures are required.
Storage	Store in the original closed containers under dry conditions. Avoid extremes of temperatures.
Other information	For quality reasons: Avoid elevated temperatures.

8.

EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure limit values	TWA 10 mg/m (mist)
Technical measures	Adequate ventilation should be maintained when handling heated product.
Personal protection	Immediately remove soiled or soaked clothing. Do not eat, drink while working. Hand protection : Suitable protective gloves. Eye protection : Protective goggles.

9.

PHYSICAL AND CHEMICAL PROPERTIES.		
Parameter	Value	
Glycerine Content	99.7 % min	
Physical State	Liquid	
Odour	Odourless	
Taste	Tangy sweet	
Colour	Colourless , Clear	
Boiling Point	Approx. 290 °C	AOCS Tr 1a-64
Melting Point	Approx. 18 °C	
Viscosity @ 50 °C	Approx. 140 mPa.s	AOCS Ja 10-87:1997
Flash Point	Approx. >180°C	DIN ISO 2592
Relative Density (20°C)	Approx. 1.263 g/cm3	No information
Vapour pressure (50°C)	0.0025 mbar	
Solubility (qualitative)	Soluble in water (20°C) 1,263 g/cm3	
Ignition temperature	429°C	DIN 51794
Stable and soluble in water and miscible with ethanol, slightly soluble with acetone. Water white, liquid,		





10.

STABILITY AND REACTIVITY	
Stability	Stable under normal conditions.
Conditions to avoid	Finely divided in insulation etc the product can catch fire
Materials to avoid	Strong oxidizing agents.
Hazardous decomposition products	Thermal decomposition may release acrolein.

11.

TOXICOLOGICAL INFORMATION	
LD50 oral, rat	9,2 g/kg.
Skin and eye irritation, rabbit	Not irritating.
Skin sensitization	No sensitization reactions.
Ingestion	Acute oral toxicity : LD50 > 2000 mg/kg body weight, rat

12.

ECOLOGICAL INFORMATION	
The following data are estimated on the basis of the raw materials contained in the product and/or of structurally comparable substances.	
Degradability Ecotoxicity	Readily biodegradable BOD ₅ / COD = 0,75 / 1,00
LC ₅₀ , fish - 96 hours	> 5000 mg/l
EC ₅₀ algae	> 2900 mg/l

13.

DISPOSAL CONSIDERATIONS	
Waste disposal method	Re-use/ recycling of waste highly recommended. Disposal according to local legislation.
Contaminated packaging	Observe local regulations.

14.

TRANSPORT INFORMATION
Not a hazardous material according to RID/ADR, GGVS/GGVE, ADNR, IMDG, ICAO-TI/IATA-DGR.

15.

REGULATORY INFORMATION	
EU classification	This product is not dangerous according to the EU regulations (67/548/EEC - 88/379/EEC).
Inventories	Listed on EINECS (EC), TSCA-CSI (USA), DSL (Canada), AICS (Australia) and MITI (Japan).

16.

OTHER INFORMATION
This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular properties.

To the best of our knowledge, the information contained in this sheet is correct. However, we cannot accept responsibility or liability for any consequences arising from its use.

