



Material Safety Data Sheet

NR07392
GLYCERINE 96% USP NK (NON-KOSHER)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Id: NR07392

Product Name: GLYCERINE 96% USP NK (NON-KOSHER)

Synonyms: Glycerol, Glycerine.

Chemical Family: None Known

Application: Multiple uses including as emulsifier, emollient, plasticizer, humectant, sweetener, anti-freeze, in surface coatings and paints, cosmetics, drug and food products. Intermediate for making glycerol derivatives.

Distributed By:

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Prepared By: The Environment, Health and Safety Department of Univar Canada Ltd.

Preparation date of MSDS: 23/Jun/2015

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2. HAZARDS IDENTIFICATION

Potential Acute Health Effects:

Eye Contact: May cause slight transient (temporary) eye irritation.

Skin Contact: Not expected to cause skin irritation. Contact with heated material may cause thermal burns.

Inhalation: Should not be hazard at ambient temperatures. Mists may cause irritation of upper respiratory tract.

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Percentage (W/W)	LD50s and LC50s Route & Species:
Glycerine 56-81-5	96	Dermal LD50 Rabbit > 10 g/kg Inhalation LC50 Rat > 570 mg/m ³ 1 h
Water 7732-18-5	4	Oral LD50 (Rat) >90 mL/kg

Note: No additional remark.

4. FIRST AID MEASURES

Eye Contact: Immediately flush eyes with water and continue washing for several minutes. If irritation persists, consult a physician.

Skin Contact: Wash thoroughly with soap and water.

Inhalation: Move person to fresh air.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Notes to Physician: Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE FIGHTING MEASURES

Flash Point: >190 °C / 374 °F

Flash Point Method: Pensky-Martens Closed Cup

Autoignition Temperature: ~392°C / ~739°F

Flammable Limits in Air (%): Not Available.

Extinguishing Media: Use DRY chemicals, CO2, alcohol foam or water spray.

Special Exposure Hazards: Contact of glycerin with strong oxidizing agents such as nitric acid or other strong acids, chromium trioxide, potassium chlorate or potassium permanganate may cause an explosion.

Hazardous Decomposition/Combustion Materials (under fire conditions): Acrolein.

Special Protective Equipment: Fire fighters should wear full protective clothing, including self-contained breathing equipment.

NFPA RATINGS FOR THIS PRODUCT ARE: HEALTH 2, FLAMMABILITY 1, INSTABILITY 0

HMIS RATINGS FOR THIS PRODUCT ARE: HEALTH 2, FLAMMABILITY 1, REACTIVITY 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate protective equipment.

Environmental Precautionary Measures: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

Procedure for Clean Up: Absorb with an inert dry material and place in an appropriate waste disposal container. Flush area with water to remove trace residue.

7. HANDLING AND STORAGE

Handling: No special handling required. Avoid direct or prolonged contact with skin and eyes. Prevent formation of mist. Eye and skin contact should be avoided if handling at elevated temperatures.

Storage: Store in clean tight containers to prevent moisture pickup from air. Store in resin-lined steel, aluminum, stainless steel, or reinforced fiberglass vessels. Place away from incompatible materials.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

General (mechanical) room ventilation is expected to be satisfactory.

Respiratory Protection: If exposure exceeds occupational exposure limits, use an appropriate NIOSH approved respirator. In case of spill or leak resulting in unknown concentration, use a NIOSH approved supplied air respirator.

Gloves:

Not normally required.

Skin Protection: Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Eyes: Safety glasses with side shields or chemical goggles.

Other Personal Protection Data: Ensure that eyewash stations and safety showers are proximal to the work-station location.

Ingredients	Exposure Limit - ACGIH	Exposure Limit - OSHA	Immediately Dangerous to Life or Health - IDLH
Glycerine	Not available.	10 mg/m ³ TWA 5 mg/m ³ TWA	Not Available.
Water	Not available.	Not available.	Not Available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear Water white

Odor: Bland

pH Neutral

Specific Gravity: 1.2 - 1.3 @ 25°C

Boiling Point: >290°C />554 °F@ 760 mmHg

Freezing/Melting Point: Not Available.

Vapor Pressure: 0.0025 mmHg @ 50°C

Vapor Density: Not Available.

% Volatile by Volume: Not Available.

Evaporation Rate: Not Available.

Solubility: Completely soluble.

VOCs: Not Available.

Viscosity: 1410 mPa.s @ 20°C

Molecular Weight: Not Available.

Other: Not Available.

10. STABILITY AND REACTIVITY

Chemical Stability: Stable.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: None known.

Materials to Avoid: Contact of glycerin with strong oxidizing agents such as Nitric Acid or other strong acids, Chromium Trioxide, Potassium Chlorate, or Potassium Permanganate may cause an explosion.

Hazardous Decomposition Products: Acrolein.

Additional Information:

No additional remark.

11. TOXICOLOGICAL INFORMATION

Principle Routes of Exposure

Ingestion: Small amounts swallowed incidental to normal handling operations are not likely to cause injury. Swallowing larger amounts may cause injury.

Skin Contact: Not expected to cause skin irritation. Contact with heated material may cause thermal burns.

Inhalation: Should not be hazard at ambient temperatures. Mists may cause irritation of upper respiratory tract.

Eye Contact: May cause slight transient (temporary) eye irritation.

Additional Information:

Acute Test of Product:

Acute Oral LD50: Not Available.

Acute Dermal LD50: Not Available.

Acute Inhalation LC50: Not Available.

Carcinogenicity:

Ingredients	IARC - Carcinogens	ACGIH - Carcinogens
Glycerine	Not listed.	Not listed.
Water	Not listed.	Not listed.

Carcinogenicity Comment: No additional information available.

Reproductive Toxicity/ Teratogenicity/ Embryotoxicity/ Mutagenicity: Not Available.

12. ECOLOGICAL INFORMATION

Ecotoxicological Information:

Ingredients	Ecotoxicity - Fish Species Data	Acute Crustaceans Toxicity:	Ecotoxicity - Freshwater Algae Data
Glycerine	51,000 - 57,000 mg/L Oncorhynchus mykiss (Rainbow trout) LC50 96	>500 mg/L Daphnia magna EC50 24 hr	Not Available.
Water	Not Available.	Not Available.	Not Available.

Other Information:

No additional remark.

13. DISPOSAL CONSIDERATIONS

Disposal of Waste Method: Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

Contaminated Packaging: Empty containers should be recycled or disposed of through an approved waste management facility.

14. TRANSPORT INFORMATION

DOT (U.S.):

DOT Shipping Name: Not Regulated.

DOT Hazardous Class: Not Applicable.

DOT UN Number: Not Applicable.

DOT Packing Group: Not Applicable.

DOT Reportable Quantity (lbs): Not Available.

Note: No additional remark.

Marine Pollutant: No.

TDG (Canada):

TDG Shipping Name: Not Regulated.

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: No.

15. REGULATORY INFORMATION

U.S. TSCA Inventory Status: All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

Canadian DSL Inventory Status: All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

U.S. Regulatory Rules

Ingredients	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Glycerine	Not Listed.	Not Listed.	Not Listed.
Water	Not Listed.	Not Listed.	Not Listed.

California Proposition 65: Not Listed.

MA Right to Know List: Listed.

New Jersey Right-to-Know List: Listed.

Pennsylvania Right to Know List: Listed.

Additional Notes: Not Available.

WHMIS Hazardous Class:
NON-CONTROLLED

16. OTHER INFORMATION

Additional Information:	This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.
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