

# SAFETY DATA SHEET

## GL-99.7, GL-99.7 V, GL-99.7 K

### SECTION 1: IDENTIFICATION

#### Product Identifier

**Product Form:** Substance

**Product Name:** GL-99.7, GL-99.7 V, GL-99.7 K

**Synonyms:** Glycerol / Glycerin

**CAS No:** 56-81-5

#### Intended Use of the Product

##### Use of the Substance/Mixture:

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

#### Name, Address, and Telephone of the Responsible Party

##### Company

Peter Cremer North America, LP

3117 Southside Ave.

Cincinnati, OH 45204

1-513-471-7200

1-877-901-7262 (Toll free)

#### Emergency Telephone Number

**Emergency Number** : CHEMTREC: 1-800-424-9300 US and Canada; 1-703-527-3887 for calls originating elsewhere

### SECTION 2: HAZARDS IDENTIFICATION

#### Classification of the Substance or Mixture

##### Classification (GHS-US)

Not classified

#### Label Elements

##### GHS-US Labeling

No labeling applicable

#### Other Hazards

No data available

#### Unknown Acute Toxicity (GHS-US)

No data available

### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances

Name : GL-99.7, GL-99.7 V, GL-99.7 K

CAS No : 56-81-5

| Name     | Product Identifier | % (w/w) | Classification (GHS-US) |
|----------|--------------------|---------|-------------------------|
| Glycerin | (CAS No) 56-81-5   | 99.7    | Not classified          |

### SECTION 4: FIRST AID MEASURES

#### Description of First Aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice.

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention if breathing difficulty persists.

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## SECTION 4: FIRST AID MEASURES

**Skin Contact:** Rinse immediately with plenty of water. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Obtain medical attention if irritation persists.

**Ingestion:** Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

### **Most Important Symptoms and Effects Both Acute and Delayed**

**General:** Not expected to present a significant hazard under anticipated conditions of normal use. Risk of thermal burns on contact with molten product.

**Inhalation:** Overexposure may be irritating to the respiratory system.

**Skin Contact:** Contact during a long period may cause slight irritation.

**Eye Contact:** Direct contact with the eyes is likely irritating.

**Ingestion:** May be harmful if ingested in large quantities.

**Chronic Symptoms:** None expected under normal conditions of use.

### **Indication of Any Immediate Medical Attention and Special Treatment Needed**

If you feel unwell, seek medical advice (show the label where possible).

## SECTION 5: FIRE-FIGHTING MEASURES

### **Extinguishing Media**

**Suitable Extinguishing Media:** Use extinguishing media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### **Special Hazards Arising From the Substance or Mixture**

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.

### **Advice for Firefighters**

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Carbon oxides (CO, CO<sub>2</sub>). Glycerin decomposes to produce corrosive fumes of Acrolein.

**Reference to Other Sections:** Refer to section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **Personal Precautions, Protective Equipment and Emergency Procedures**

**General Measures:** Spilled material may present a slipping hazard. Do not breathe vapor or mist.

#### **For Non-Emergency Personnel**

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Avoid all unnecessary exposure.

#### **For Emergency Personnel**

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

### **Environmental Precautions**

Prevent entry to sewers and public waters.

### **Methods and Material for Containment and Cleaning Up**

**For Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clear up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material, then place in suitable container.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### Reference to Other Sections

See section 8, Exposure Controls and Personal Protection. See Section 13, Disposal Considerations.

## SECTION 7: HANDLING AND STORAGE

### Precautions for Safe Handling

**Additional Hazards When Processed:** Any proposed use of this product in elevated-temperature processes should be thoroughly evaluated to assure that safe operating conditions are established and maintained.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Protect from moisture.

**Incompatible Materials:** Strong oxidizers. Strong acids.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

| Glycerin (56-81-5)    |                                     |   |
|-----------------------|-------------------------------------|---|
| Mexico                | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| USA OSHA              | OSHA PEL (TWA) (mg/m <sup>3</sup> ) | 15 mg/m <sup>3</sup> (mist, total particulate)<br>5 mg/m <sup>3</sup> (mist, respirable fraction) |
| Alberta               | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| British Columbia      | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| New Brunswick         | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| Nunavut               | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup> (mist)   |
| Nunavut               | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| Northwest Territories | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup> (mist)   |
| Northwest Territories | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| Ontario               | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| Québec                | VEMP (mg/m <sup>3</sup> )           | 10 mg/m <sup>3</sup> (mist)   |
| Saskatchewan          | OEL STEL (mg/m <sup>3</sup> )       | 20 mg/m <sup>3</sup> (mist)   |
| Saskatchewan          | OEL TWA (mg/m <sup>3</sup> )        | 10 mg/m <sup>3</sup> (mist)   |
| Yukon                 | OEL TWA (mg/m <sup>3</sup> )        | 30 mppcf (mist)   |

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Exposure Controls

**Appropriate Engineering Controls:** Ensure adequate ventilation, especially in confined areas. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear chemically resistant protective gloves.

**Eye Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### Information on Basic Physical and Chemical Properties

|   |   |
|---|---|
| Physical State                                    | : Liquid  |
| Appearance  | : Water white, clear  |
| Odor  | : Bland   |
| Odor Threshold                                    | : Not available   |
| pH  | : Not available   |
| Evaporation Rate                                  | : Not available   |
| Melting Point                                     | : $\approx 64.4$ °F (18 °C)   |
| Freezing Point                                    | : Not available   |
| Boiling Point                                     | : $> 550$ °F (288 °C) @ 760 mm Hg   |
| Flash Point                                       | : $> 390$ °F (199 °C) PMCC  |
| Auto-ignition Temperature                         | : $\approx 752$ °F (400.00 °C)  |
| Decomposition Temperature                         | : 290 °C (554 °F)   |
| Flammability (solid, gas)                         | : Not available   |
| Lower Flammable Limit                             | : Not available   |
| Upper Flammable Limit                             | : Not available   |
| Vapor Pressure                                    | : $< 0.008$ mm Hg @ 68° F (20° C)   |
| Relative Vapor Density at 20 °C                   | : Not available   |
| Relative Density                                  | : 1.262 @ 25/25° C  |
| Solubility  | : Complete in water at 72 °F, Miscible with ethanol, Slightly soluble in acetone, Insoluble in ether and chloroform |
| Partition Coefficient: N-Octanol/Water            | : Not available   |
| Viscosity   | : $\approx 1300$ mPa.s at 20° C   |
| Explosion Data – Sensitivity to Mechanical Impact | : Not expected to present an explosion hazard due to mechanical impact.   |
| Explosion Data – Sensitivity to Static Discharge  | : Not expected to present an explosion hazard due to static discharge.  |

## SECTION 10: STABILITY AND REACTIVITY

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## SECTION 10: STABILITY AND REACTIVITY

**Reactivity:** Hazardous reactions may occur on contact with certain chemicals. Refer to incompatible materials.  
**Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).  
**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.  
**Conditions to Avoid:** Moisture. Direct sunlight. Extremely high or low temperatures. Ignition sources. Incompatible materials.  
**Incompatible Materials:** Strong oxidizers. strong acids. 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:** Does not decompose up to 204° C (400° F). Thermal decomposition may release acrolein.

## SECTION 11 - TOXICOLOGICAL INFORMATION

### Information on Toxicological Effects - Product

**Acute Toxicity:** Not classified  
**LD50 and LC50 Data:** Not available  
**Skin Corrosion/Irritation:** Not classified  
**Serious Eye Damage/Irritation:** Not classified  
**Respiratory or Skin Sensitization:** Not classified  
**Germ Cell Mutagenicity:** Not classified  
**Teratogenicity:** Not classified  
**Carcinogenicity:** Not classified  
**Specific Target Organ Toxicity (Repeated Exposure):** Not classified  
**Reproductive Toxicity:** Not classified  
**Specific Target Organ Toxicity (Single Exposure):** Not classified  
**Aspiration Hazard:** Not classified  
**Symptoms/Injuries After Inhalation:** Overexposure may be irritating to the respiratory system.  
**Symptoms/Injuries After Skin Contact:** Contact during a long period may cause slight irritation.  
**Symptoms/Injuries After Eye Contact:** Direct contact with the eyes is likely irritating.  
**Symptoms/Injuries After Ingestion:** May be harmful if ingested in large quantities.  
**Chronic Symptoms:** None expected under normal conditions of use.

### Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

| Glycerin (56-81-5)  |  |
|---------------------|--|
| LD50 Oral Rat       | 27.2 g/kg                                    |
| LD50 Dermal Rabbit  | > 10 g/kg                                    |
| LC50 Inhalation Rat | > 570 mg/m <sup>3</sup> (Exposure time: 1 h) |

## SECTION 12: ECOLOGICAL INFORMATION

### Toxicity

**Ecology - General:** Not classified.

| Glycerin (56-81-5) |  |
|--------------------|--|
| LC50 Fish 1        | 51000 - 57000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

**Persistence and Degradability** Not available

### Bioaccumulative Potential

| Glycerin (56-81-5) |                      |
|--------------------|----------------------|
| BCF Fish 1         | (no bioaccumulation) |
| Log Pow            | -1.76                |

**Mobility in Soil** Not available

### Other Adverse Effects

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## SECTION 12: ECOLOGICAL INFORMATION

**Other Information:** Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

**Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, and international regulations.

**Ecology – Waste Materials:** Avoid release to the environment.

## SECTION 14: TRANSPORT INFORMATION

**In Accordance with DOT** Not regulated for transport

**In Accordance with IMDG** Not regulated for transport

**In Accordance with IATA** Not regulated for transport

**In Accordance with TDG** Not regulated for transport

## SECTION 15: REGULATORY INFORMATION

### US Federal Regulations

| Glycerin (56-81-5)  |  |
|---|--|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| <b>EPA TSCA<br/>Regulatory Flag</b>                                       | Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule. |

### US State Regulations

| Glycerin (56-81-5)  |
|---|
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (30 min)                               |
| U.S. - Connecticut - Hazardous Air Pollutants - HLVs (8 hr)                                 |
| U.S. - Idaho - Occupational Exposure Limits - TWAs  |
| RTK - U.S. - Massachusetts - Right To Know List   |
| U.S. - Michigan - Occupational Exposure Limits - TWAs                                       |
| U.S. - Minnesota - Hazardous Substance List   |
| U.S. - Minnesota - Permissible Exposure Limits - TWAs                                       |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - 24-Hour |
| U.S. - New Hampshire - Regulated Toxic Air Pollutants - Ambient Air Levels (AALs) - Annual  |
| RTK - U.S. - New Jersey - Right to Know Hazardous Substance List                            |
| U.S. - New York - Occupational Exposure Limits - TWAs                                       |
| U.S. - North Dakota - Air Pollutants - Guideline Concentrations - 8-Hour                    |
| U.S. - Oregon - Permissible Exposure Limits - TWAs  |
| RTK - U.S. - Pennsylvania - RTK (Right to Know) List  |
| U.S. - Tennessee - Occupational Exposure Limits - TWAs                                      |
| U.S. - Texas - Effects Screening Levels - Long Term   |
| U.S. - Texas - Effects Screening Levels - Short Term  |
| U.S. - Vermont - Permissible Exposure Limits - TWAs   |
| U.S. - Washington - Permissible Exposure Limits - STELs                                     |
| U.S. - Washington - Permissible Exposure Limits - TWAs                                      |

### Canadian Regulations

| Glycerin (56-81-5)                                    |
|---|
| Listed on the Canadian DSL (Domestic Substances List) |

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## SECTION 15: REGULATORY INFORMATION

|                      |   |
|----------------------|---|
| WHMIS Classification | Uncontrolled product according to WHMIS classification criteria |
|----------------------|---|

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

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 05/29/2015

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### Party Responsible for the Preparation of This Document

Peter Cremer North America, LP

1-513-471-7200

1-877-901-7262 (Toll Free)

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SDS NA Peter Cremer