



## Safety Data Sheet

### **1. PRODUCT AND COMPANY IDENTIFICATION**

#### **1.1 Product identifiers**

**Product name :** Glycerin

**Product Number :** G0185-G0190

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

#### **1.2 Relevant identified uses of the substance or mixture and uses advised against**

**Identified uses :** Laboratory chemicals, Manufacture of substances

#### **1.3 Details of the supplier of the safety data sheet**

**Company :** Chemproducts LLC

6310 SW Virginia Ave. Portland, OR. 97239

**Phone:** 1-855-370-2436

**Fax:** 503-542-0135

#### **1.4 Emergency telephone number**

**Emergency Contact:** Chemtrec 1-800-424-9300

### **2. HAZARDS IDENTIFICATION**

#### **2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture.

#### **2.2 GHS Label elements, including precautionary statements**

Not a hazardous substance or mixture.

#### **2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none**

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

#### **3.1 Substances**

Synonyms : 1,2,3-Propanetriol

Glycerol

Glycerin

Formula : C<sub>3</sub>H<sub>8</sub>O<sub>3</sub>

Molecular Weight : 92.09 g/mol

CAS-No. : 56-81-5

EC-No. : 200-289-5

#### **Hazardous components**

<b>Component</b>	<b>Classification</b>	<b>Concentration</b>
Glycerol		-

### **4. FIRST AID MEASURES**

#### **4.1 Description of first aid measures**

##### **General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

##### **If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

##### **In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.

##### **In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

##### **If swallowed**

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

#### **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labelling (see section 2.2) and in section 11

**4.3 Indication of any immediate medical attention and special treatment needed**

no data available

**5. FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**5.2 Special hazards arising from the substance or mixture**

Carbon oxides

**5.3 Advice for firefighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**5.4 Further information**

no data available

**6. ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

For personal protection see section 8.

**6.2 Environmental precautions**

Do not let product enter drains.

**6.3 Methods and materials for containment and cleaning up**

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

For disposal see section 13.

**7. HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

For precautions see section 2.2.

**7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed in a dry and well-ventilated place. Hygroscopic.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

**Components with workplace control parameters**

Component	CAS-No.	Value	Control Parameters	Basis
Glycerol	56-81-5	TWA	10 mg/m <sup>3</sup>	USA. ACGIH Threshold Limit Values (TLV)
	Remarks	Upper Respiratory Tract irritation		
		See Appendix D - Substances with No Established RELs		
		TWA	5 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	15 mg/m <sup>3</sup>	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

**8.2 Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

**Personal protective equipment****Eye/face protection**

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatrill® (KCL 740 / Aldrich Z677272, Size M) data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1 Information on basic physical and chemical properties**

- a) Appearance Form: liquid  
Colour: clear
- b) Odour odourless
- c) Odour Threshold no data available
- d) pH 5.5 – 8
- e) Melting point/freezing point Melting point/range: 20 °C (68 °F) - lit.
- f) Initial boiling point and boiling range 182 °C (360 °F) at 27 hPa (20 mmHg) - lit.
- g) Flash point 160 °C (320 °F) - closed cup
- h) Evaporation rate no data available
- i) Flammability (solid, gas) no data available
- j) Upper/lower flammability or explosive limits Lower explosion limit: 0.9 %(V)
- k) Vapour pressure 0.0033 hPa (0.0025 mmHg) at 50 °C (122 °F)
- l) Vapour density 3.18 - (Air = 1.0)
- m) Relative density 1.25 g/cm<sup>3</sup>
- n) Water solubility soluble
- o) Partition coefficient: n-octanol/water no data available
- p) Auto-ignition temperature no data available
- q) Decomposition temperature no data available
- r) Viscosity no data available
- s) Explosive properties no data available
- t) Oxidizing properties no data available

**9.2 Other safety information**

Surface tension 63.4 mN/m at 20 °C (68 °F)

Relative vapour density 3.18 - (Air = 1.0)

## **10. STABILITY AND REACTIVITY**

### **10.1 Reactivity**

no data available

### **10.2 Chemical stability**

Stable under recommended storage conditions.

### **10.3 Possibility of hazardous reactions**

no data available

### **10.4 Conditions to avoid**

no data available

### **10.5 Incompatible materials**

Strong bases, Strong oxidizing agents

### **10.6 Hazardous decomposition products**

Other decomposition products - no data available

In the event of fire: see section 5

## **11. TOXICOLOGICAL INFORMATION**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

LD50 Oral - rat - 12,600 mg/kg

Inhalation: no data available

LD50 Dermal - rabbit - > 10,000 mg/kg

no data available

#### **Skin corrosion/irritation**

Skin - rabbit

Result: Mild skin irritation - 24 h

#### **Serious eye damage/eye irritation**

Eyes - rabbit

Result: Mild eye irritation - 24 h

#### **Respiratory or skin sensitisation**

no data available

#### **Germ cell mutagenicity**

no data available

#### **Carcinogenicity**

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

#### **Reproductive toxicity**

no data available

no data available

#### **Specific target organ toxicity - single exposure**

no data available

#### **Specific target organ toxicity - repeated exposure**

no data available

#### **Aspiration hazard**

no data available

#### **Additional Information**

**RTECS:** MA8050000

Prolonged or repeated exposure may cause:, Nausea, Headache, Vomiting

Kidney - Irregularities - Based on Human Evidence

Kidney - Irregularities - Based on Human Evidence



## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

no data available

### **12.2 Persistence and degradability**

no data available

### **12.3 Bioaccumulative potential**

no data available

### **12.4 Mobility in soil**

no data available

### **12.5 Results of PBT and vPvB assessment**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

### **12.6 Other adverse effects**

no data available

## **13. DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

**Product** Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging** Dispose of as unused product.

## **14. TRANSPORT INFORMATION**

**DOT (US)** Not dangerous goods

**IMDG** Not dangerous goods

**IATA** Not dangerous goods

## **15. REGULATORY INFORMATION**

### **SARA 302 Components**

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### **SARA 311/312 Hazards**

Chronic Health Hazard

### **Massachusetts Right To Know Components**

Glycerol	CAS-No. 56-81-5	Revision Date 2007-03-01
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### **Pennsylvania Right To Know Components**

Glycerol	CAS-No. 56-81-5	Revision Date 2007-03-01
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### **New Jersey Right To Know Components**

Glycerol	CAS-No. 56-81-5	Revision Date 2007-03-01
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### **California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **16. OTHER INFORMATION**

### **HMIS Rating**

Health hazard: 0

Chronic Health Hazard: \*

Flammability: 1

Physical Hazard 0

### **NFPA Rating**

Health hazard: 0

Fire Hazard: 1

Reactivity Hazard: 0



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