

### SECTION 1: Identification of the substance/mixture

#### 1.1. Product identifier

Product form : Substance  
 Substance name : Propylene Glycol  
 CAS No. : 57-55-6  
 Molecular Weight : 76.09 g/mol  
 Product code : LW-PROPGLYC  
 Formula : C<sub>3</sub>H<sub>8</sub>O<sub>2</sub>  
 Synonyms : 1,2-Propanediol

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

Use of the substance/mixture : Laboratory chemicals, Manufacture of substances

#### 1.3. Emergency telephone number

Emergency number : 1.800.424.9300 (USA)  
 +1.703.527.3887 (INT)

### SECTION 2: Hazards Identification

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

##### GHS-US classification

Not a hazardous substance or mixture.

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) : None  
 Signal word (GHS-US) : None  
 Hazard statements (GHS-US) : None  
 Precautionary statements (GHS-US) : None

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Substance type : Mono-constituent

Name	Product identifier	%	GHS-US classification
Propane-1,2-diol	(CAS No.) 57-55-6	100	None

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### 3.2. Mixtures

Not applicable

## SECTION 4: Description of first aid measures

### 4.1. Description of first aid measures

- First-aid measures after inhalation : Consult a physician. Show this safety data sheet to the doctor in attendance.
- First-aid measures after skin contact : If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
- First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- First-aid measures after ingestion : 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/or in section 11

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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

### 5.2. Special hazards arising from the substance or mixture

No data available

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

### 5.4. More Information

No data available

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

### 6.2. Environmental precautions

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Do not let product enter drains.

### 6.3. Methods and material 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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapor 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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control Parameters	Basis
Propane-1,2-diol	57-55-6	TWA	10.000000 mg/m <sup>3</sup>	USA. Workplace Environmental Exposure Levels (WEEL)

### 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.

### 8.3. Personal protective equipment

Eye 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.

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### Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

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

### Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: Dermatril® (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.

- Body protection : Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
- Respiratory protection : Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls.
- If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
- Environmental exposure controls : Do not let product enter drains.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

- Appearance : Form: liquid, clear, viscous  
Color: colorless

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Odor	: No data available
Odor Threshold	: No data available
pH	: No data available
Melting point/freezing point	: Melting point/range: -60 °C (-76 °F) - lit.
Initial boiling point and boiling range	: 187 °C (369 °F) - lit.
Flash point	: 103 °C (217 °F) - closed cup
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper/lower flammability or explosive limits	: Upper explosion limit: 12.5 %(V) Lower explosion limit: 2.6 %(V)
Vapor pressure	: 0.11 hPa (0.08 mmHg) at 20 °C (68 °F)
Vapor density	: 2.63 - (Air = 1.0)
Relative density	: 1.036 g/cm <sup>3</sup> at 25 °C (77 °F)
Water solubility	: No data available
Partition coefficient: n-octanol/water	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
<b>9.2. Other information</b>	
Solubility in other solvents	: 2.63 - (Air = 1.0)

## SECTION 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

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No data available

### 10.5. Incompatible materials

Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

### 10.6. Hazardous decomposition products

Other decomposition products - No data available

In the event of fire: see section 5

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	: LD50 Oral - Rat - 20,000 mg/kg Sigma-Aldrich - P4347 Page 5 of 7 Inhalation: No data available LD50 Dermal - Rabbit - 20,800 mg/kg LD50 Intramuscular - Rat - 14 g/kg LD50 Intravenous - Dog - 26 g/kg LD50 Intraperitoneal - Rat - 6,660 mg/kg LD50 Subcutaneous - Rat - 22,500 mg/kg LD50 Intravenous - Rat - 6,423 mg/kg LD50 Intraperitoneal - Mouse - 9,718 mg/kg Remarks: Lungs, Thorax, or Respiration: Chronic pulmonary edema. Kidney, Ureter, Bladder: Changes in both tubules and glomeruli. Blood: Changes in spleen. LD50 Subcutaneous - Mouse - 17,370 mg/kg Remarks: Behavioral: Change in motor activity (specific assay). Behavioral: Muscle contraction or spasticity. Cyanosis LD50 Intravenous - Mouse - 6,630 mg/kg LD50 Intravenous - Rabbit - 6,500 mg/kg
Skin corrosion/irritation	: Skin - Human Result: Mild skin irritation - 7 d
Serious eye damage/irritation	: Eyes - Rabbit Result: Mild eye irritation
Respiratory or skin sensitization	: No data available
Germ cell mutagenicity	: No data available

### Carcinogenicity

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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
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: TY2000000 Gastrointestinal disturbance, Nausea, Headache, Vomiting, Central nervous system depression, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxicity to fish	:	mortality NOEC - Pimephales promelas (fathead minnow) - 52,930 mg/l - 96 h
Toxicity to daphnia and other aquatic invertebrates	:	mortality NOEC - Daphnia (water flea) - 13,020 mg/l - 48 h

### 12.2. Persistence and degradability

No data available

### 12.3. Bioaccumulative potential

No additional information available

### 12.4. Mobility in soil

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No additional information 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

## SECTION 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.

## SECTION 14: Transport information

- DOT (US) : Not dangerous goods
- IMDG : Not dangerous goods
- IATA : Not dangerous goods

## SECTION 15: Regulatory information

### SARA 302 Components

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

### SARA 313 Components

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

No SARA Hazards

### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

### Pennsylvania Right To Know Components

Propane-1,2-diol	CAS-No.	Revision Date
	57-55-6	2007-03-01

### New Jersey Right To Know Components

Propane-1,2-diol	CAS-No.	Revision Date
	57-55-6	2007-03-01

### California Prop. 65 Components



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

### SECTION 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

#### Further Information

Information in this SDS is from available published sources and is believed to be accurate. No warranty, express or implied, is made and Loudwolf Holdings Ltd. assumes no liability resulting from the use of this SDS. The user must determine suitability of this information for his/her application.