

Product Name	Propylene Glycol
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## **Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

### 1.1. Product identification:

**Product Description:** Propylene Glycol

**Synonyms:** 1,2-Propanediol; 1,2-Dihydroxypropane; Methyl Glycol

**CAS-No:** 57-55-6

**EC-No.:** 200-338-0

**Molecular Formula:** C<sub>3</sub> H<sub>8</sub> O<sub>2</sub>

**REACH Registration No:** A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

**Recommended Use:** Laboratory chemicals, Manufacture of substances, Pharma excipients

### 1.3. Details of the supplier of the safety data sheet:

- **Company** **Finar Limited**  
184-186/P, Chacharwadi Vasna,  
Sarkhej-Bavla Highway,  
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.  
Web: [www.finarchemicals.com](http://www.finarchemicals.com)
- **E-Mail Address** [safety.amd@actylis.com](mailto:safety.amd@actylis.com); [qa.amd@actylis.com](mailto:qa.amd@actylis.com)

### 1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717

## **SECTION 2: HAZARDS IDENTIFICATION**

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

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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### 2.2. Label Elements:

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

### 2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

### 3.1. Substances: Propylene Glycol

### 3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Propylene Glycol	57-55-6	200-338-0	>95

## **SECTION 4: FIRST AID MEASURES**

### 4.1. Description of first aid measures:

- **If inhaled**

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

- **If case of skin contact**

Wash off with soap and plenty of water.

- **In case of eye contact**

Flush eyes with water as a precaution.

- **If swallowed**

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

### 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 information Available

## **SECTION 5: FIREFIGHTING MEASURES**

### 5.1. Extinguishing media:

**Suitable Extinguishing Media-** Use water spray, alcohol-resistant foam, dry chemical or

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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 firefighting if necessary.

**5.4 Further Information:**

No information Available

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Avoid breathing vapours, mist or gas.

For personal protection see section 8.

**6.2. Environmental precautions:**

No special environmental precautions required.

**6.3. Methods and material for containment and cleaning up:**

Keep in suitable, closed containers for disposal.

**6.4. Reference to other sections:**

For disposal see Sections 13.

## **SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling:**

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.

Store in cool 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**

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**8.1. Control parameters****Components with workplace control parameters****8.2. Exposure Controls:**

- **Appropriate Engineering Controls:**

General industrial hygiene practice.

**Personal Protective Equipment:**

- **Eye & Face Protection-**

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.

The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

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)

**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-**

Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

- **Environmental Exposure Controls-**

No special environmental precautions required.

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## **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

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

- **Appearance: - Form:** - Viscous
- **Color:** - Colorless
- **Physical State:** - Liquid
- **Odour:** - Odorless
- **pH:** - 6.5-7.5 100g/l aq. sol
- **Melting Point:** - -60°C
- **Critical Temperature:** - No data available
- **Vapor Pressure:** - 0.13 mbar @ 20°C
- **Vapor Density:** - 2.62 (Air = 1.0)
- **Volatility:** - No data available
- **Bulk Density:** - No data available
- **Flammability or Explosive limit:**
  - **Lower:** 2.6 vol %
  - **Upper:** 12.6 vol %
- **Odor Threshold:** - No data available
- **Water/Oil Dist. Co eff.:** - No data available
- **Ionicity (in Water):** - No data available
- **Boiling Point/Range:** 187°C
- **Flash Point:** 99°C
- **Auto Ignition Temperature:-** 400°C
- **Viscosity:-** 45 mPa.s at 20 °C
- **Specific Gravity / Density:** 1.03 - 1.04
- **Solubility:** Soluble in Water

### 9.2. Other information:

**Molecular Formula:** C<sub>3</sub> H<sub>8</sub> O<sub>2</sub>

## **SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity:** - No information Available

**10.2. Chemical stability:** - Stable under recommended storage conditions.

**10.3. Possibility of hazardous reactions:** - No information Available

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**10.4. Conditions to avoid:** - No information Available

**10.5. Incompatible materials:** - Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents  
Acid chlorides, Acid anhydrides, Oxidizing agents, Chloroformates, Reducing agents

**10.6. Hazardous decomposition products:** - Other decomposition products - No data available  
Hazardous decomposition products formed under fire conditions. - Carbon oxides  
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

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 - Rabbit

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Result: No skin irritation - 4 h

(OECD Test Guideline 404)

**Serious eye damage/eye irritation**

Eyes - Rabbit

Result: Mild eye irritation

**Respiratory or skin sensitization**

No information available

**Germ cell mutagenicity**

No information available

**Carcinogenicity**

No information available

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.

**Reproductive toxicity**

No information available

**Specific target organ toxicity - single exposure**

No information available

**Specific target organ toxicity - repeated exposure**

No information available

**Aspiration hazard**

No information 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 mortality NOEC - Daphnia (water flea) - 13.020 mg/l - 48 h

and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - > 10.000 mg/l - 48 h

### **12.2 Persistence and degradability:**

No information available

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### 12.3 Bioaccumulate potential:

No information available

### 12.4 Mobility in soil:

No information Available

### 12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Other adverse effects:

No information 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**

	<b>Land transport (ADR/RID)</b>	<b>Air transport (IATA)</b>	<b>Sea transport (IMDG)</b>
<b>14.1 UN number</b>	—	—	—
<b>14.2 Proper shipping name</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.3 Class</b>	—	—	—
<b>14.4 Packing group</b>	—	—	—
<b>14.5 Environmentally hazardous</b>	No	No	No
<b>14.6 Special precautions for user</b>	No information available	No information available	No information available



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### **SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:**

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

**15.2 Chemical safety assessment:**

For this product a chemical safety assessment was not carried out.

### **SECTION 16: Other information**

**References:** Not available

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