

Product Name | Propylene carbonate

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: Propylene carbonate

Synonyms: 4-Methyl-2-oxo-1,3-dioxolane

CAS-No: 108-32-7 **EC-No.:** 203-572-1

Molecular Formula: C₄H₆O₃

REACH Registration No: Not Applicable

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

Recommended Use: Pharmaceutical Excipient

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,

Email: info@finarchemicals.com

Web: www.finarchemicals.com

• E-mail Address safety@finarchemicals.com;

info@finarchemicals.com

1.4. Emergency telephone number:

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

- Registered office No: +91 - 79 – 40040085



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SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture: CLP Classification - Regulation (EC) No **203-572-1**

H319-Serious eye damage/eye irritation

2.2. Label elements:

Signal word: Warning

Pictogram



Signal Word: GHS07

- Hazard Statements:
 - H319 Causes serious eye irritation
- Precautionary Statements- Prevention
 - P280 Wear protective gloves/ protective clothing/ eye protection/ face protection
- Precautionary Statements-response
 - **P305+P351+P338 IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 - **P337+P313** If eye irritation persists: Get medical advice/attention.
- **2.3. Other hazards:** No additional information available



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Propylene carbonate –CAS no. 108-32-7

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Propylene carbonate	108-32-7	203-572-1	99.00-100.00%

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- General Advice: Take off contaminate clothing.
- Eye Contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- **Skin Contact**: Rinse skin with water/shower.
- Ingestion: Do not induce vomiting. Call a physician or Poison Control Center immediately.
- Inhalation: Move to fresh air. If not breathing, give artificial respiration. Does not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required.
- Protection of First-aiders: Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination.

4.2. Most important symptoms and effects, both acute and delayed:

Irritation, Nausea, Gastrointestinal complaints



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

No further relevant information available.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Co-ordinate fire-fighting measures to the fire surroundings water spray, foam, dry extinguishing powder, carbon dioxide (CO2)

5.2. Special hazards arising from the substance or mixture:

Combustible, Vapors can form explosive mixtures with air.

5.3. Advice for firefighters:

Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus. Vapors are heavier than air.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Use personal protective equipment. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

6.2. Environmental precautions: Dilute with plenty of water. Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal. Absorb with liquid-binding material (sand, sawdust).



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6.4. Reference to other sections:

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols. Wear personal protective equipment. Do not breathe vapors or spray mist. Do not ingest.

• **Hygiene Measures:** Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not eat, drink or smoke when using this product. Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

7.2. Conditions for safe storage, including any incompatibilities:

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

7.3. Specific end use(s): No further relevant information available.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Exposure limits this product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies

- **Biological limit values:** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.
- Derived No Effect Level (DNEL): Human health values



DNEL	Threshold	Protection goal, route of	Used in	Exposure time
	level	exposure		
DNEL	20 mg/m³	human, inhalator	worker (industry)	chronic - local effects
DNEL	20 mg/kg	human, dermal	worker (industry)	chronic - systemic effects

- **8.2.** Exposure controls: Engineering Measures
 - Personal protective equipment:
 - **Eye Protection** Safety glasses with side-shields Goggles
 - **Hand Protection** Protective gloves (EU standard EN 374)
 - **Skin and body protection** Long sleeved clothing
 - **Respiratory Protection** In case of insufficient ventilation wear suitable respiratory equipment
 - Small scale/Laboratory use- Maintain adequate ventilation
 - **Environmental exposure controls** Keep away from drains, surface and ground water.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

- 9.1. Information on basic physical and chemical properties:
 - Appearance Colorless
 - Physical State Liquid
 - Odor Fruity odor
 - **pH**: 7 (10% aqueous solution)
 - **Melting Point:** -49°C
 - **Vapor Pressure:** 0,04 hPa at 20 °C
 - **Vapor Density:** 1.21 g/cm³
 - Volatility: Not available.



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• **Odor Threshold:** Not available.

• n-octanol/water co efficient (log KOW) -0.48 (25 °C) (exp.)

• **Boiling Point/Range** 240 °C @ 760 mmHg

• Flash Point 116 °C

• Specific Gravity / Density 1.205

• Solubility: Soluble in cold water

9.2. Other information:

Molecular Formula: C₄H₆O₃

Molecular Weight: 102.1 g/mol

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity: In case of warming: Vapors can form explosive mixtures with air.

10.2. Chemical stability: Stable under ambient storage conditions.

10.3. Possibility of hazardous reactions: Violent reaction with: Strong oxidizer, Strong alkali,

Strong acid, Reducing agents.

10.4. Conditions to avoid: Keep away from heat. Decomposition takes place from

Temperatures above: >240 °C.

10.5. Incompatible materials: different plastics

10.6. Hazardous decomposition products: Hazardous combustion products: see section 5

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects: Product Information:

Shall not be classified as Acutely toxic

Toxicology data for the components:



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LD50 Oral	LD50 Dermal
35.00 mg/kg	>20.00 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Acc. to 1272/2008/EC: Shall not be classified as hazardous to the aquatic environment

- 12.1. Toxicity:
- **12.2. Persistence and degradability Persistence:** The substance is readily biodegradable.

Theoretical Oxygen Demand: 1.254 mg/mg

Theoretical Carbon Dioxide: 1.724 mg/mg

- **12.3. Bio accumulative potential:** Does not significantly accumulate in organisms.
- **12.4. Mobility in soil:** The Organic Carbon normalized adsorption coefficient 0.807 (20 °C)
- 12.5. Results of PBT and vPvB assessment: Data not available
- **12.6.** Other adverse effects: Slightly hazardous to water.

SECTION 13: DISPOSAL CONSIDERATIONS

- 13.1. Waste treatment methods:
 - Waste from Residues / Unused Products: Waste is classified as hazardous. Dispose of contents/container in accordance with local/regional/national/international regulations.
 - **Contaminated Packaging:** Dispose of this container to hazardous or special waste collection point.

SECTION 14: TRANSPORT INFORMATION

- **DOT Classification:** Not regulated
- Special Provisions for Transport: Not available.



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SECTION 15: REGULATORY INFORMATION

• Federal and State Regulations: TSCA 8(b) inventory: listed

• Other Regulations:

- **OSHA:** Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
- **EINECS:** Listed
- Directive on industrial emissions (VOCs, 2010/75/EU) VOC content 100 %

• Personal protective equipment:

- Eye Protection- Safety glasses with side-shields Goggles (European standard EN
 166) Hand Protection
- **Hand Protection** Protective gloves (EU standard EN 374)
- Skin and body protection Long sleeved clothing
- **HMIS (U.S.A.):**

Health Hazard: 1

Fire Hazard: 1

Reactivity: 0

- National Fire Protection Association (U.S.A.):

Health: 1

Flammability: 1

Reactivity: 0

SECTION 16: OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

H319 - Causes serious eye irritation

• Legend:



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CAS - Chemical Abstracts Service , TSCA - United States Toxic Substances Control Act Section 8(b) Inventory , EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances, RPE - Respiratory Protective Equipment, LD50 - Lethal Dose 50%, LC50 - Lethal Concentration 50%, EC50 - Effective Concentration 50%, Water, PBT - Persistent, Bio accumulative, Toxic, vPvB - very Persistent, very Bio accumulative, ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road, ICAO/IATA - International Civil Aviation Organization/International Air Transport Association, OECD - Organization for Economic Cooperation and Development, ATE - Acute Toxicity Estimate,

VOC - Volatile Organic Compounds

References: Not available

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