

Section 1. Product and Company Identification

**Product Name** PROPYLENE CARBONATE  
**CAS Number** 108-32-7

**Parchem - fine & specialty chemicals**

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**EMERGENCY RESPONSE NUMBER**  
**CHEMTEL**

Toll Free US & Canada: 1 (800) 255-3924

All other Origins: 1 (813) 248-0585

Collect Calls Accepted

Section 2. Hazards Identification

**Classification of the substance or mixture**

**GHS Classification**

**Eye irritation:** Category 2

**GHS Label Elements**

**Pictograms:**



**Signal word:** WARNING

**Hazard and precautionary statements**

**Hazard Statements**

**H319:** Causes serious eye irritation

**Precautionary Statements**

**P264:** Wash hands thoroughly after handling.

**P280:** Wear protective gloves/clothing eye/face protection.

**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.

Section 3. Composition / Information on Ingredients

**Common Name** PROPYLENE CARBONATE  
**Formula** C<sub>4</sub>H<sub>6</sub>O<sub>3</sub>



**CAS Number** 108-32-7

COMPONENT	CAS NUMBER	CONCENTRATION
PROPYLENE CARBONATE	108-32-7	99.5%

#### Section 4. First Aid Measures

**Inhalation:** Remove to fresh air. If not breathing, apply artificial respiration. Keep patient warm. Get medical assistance.

**Ingestion:** Wash out mouth with water. Loosen tight clothing such as collar, tie, belt or waistband. Never give anything by mouth to an unconscious person. Get medical aid.

**Skin Contact:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid.

**Eye Contact:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

**NOTE TO PHYSICIAN:** Treat symptomatically and supportively.

#### Section 5. Firefighting Measures

**Conditions of flammability:** Not flammable or combustible.

**Extinguishing Media:** CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray.

**Special protective equip.:** Wear a self-contained breathing apparatus MSHA/NIOSH (approved or equivalent), and full protective gear.

**Hazardous combustion products:** Carbon oxides.

**Special Information:** Material should be kept out of eyes and of skin.

#### Section 6. Accidental Release Measures

**Personal precautions:** Wear personal protection equipment.

**Emergency procedures:** Ensure adequate ventilation.

**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods of containment/cleanup:** Wet clean or vacuum up solids. Don't use a brush or compressed air for cleaning surfaces or clothing. Absorb with liquid-binding material (sand, acid binders, universal binders, etc....)

#### Section 7. Handling and Storage

**Handling:** Wash hands after use. Keep away from heat. Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material.

**Storage:** Protect from humidity and water. Store in cool, dry conditions in well-sealed containers.



**Incompatibilities:** Oxidizing and Acidic materials. Strong bases. Reducing agents.

Section 8. Exposure Controls / Personal Protection

**Engineering Controls:** Use adequate ventilation to keep airborne concentrations low. An emergency eye wash must be readily accessible to the work area. An emergency shower must be readily accessible to the work area.

**Personal Protective Equipment**

**Personal Respirators:** Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirator when necessary.

**Skin Protection:** Wear appropriate protective gloves and clothing to prevent skin exposure.

**Eye Protection:** Wear chemical splash goggles

Section 9. Physical and Chemical Properties

**Physical State:** Liquid

**Color:** Clear, Colorless

**Odor:** Odorless

**Odor Perception Threshold:** No data available.

**pH:** 7

**Freezing/Melting Point:** -54 °C/-65.2°F

**Boiling Point:** 240 °C/464°F

**Decomposition temperature:** 200 °C/392°F

**Flash Point:** 132 °C/269.6°F

**Auto-ignition Temperature:** 510 °C/950°F

**Lower (LEL):** 1.9% (V)

**Upper (UEL):** 14.3% (V)

**Vapor Pressure:** 0.0399 hPa

**Density:** 1198 kg/m<sup>3</sup>

**Vapor Density (air=1):** No data available.

**Relative Density (water=1):** 1.2057 g/cm<sup>3</sup>

**In Water:** fully miscible

**Octanol/water Partition Coefficient:** No data available.

**Molecular Weight:** No data available.

**Evaporation Rate:** No data available.

Section 10. Stability and Reactivity

**Stability:** Stable at room temperature and under normal conditions.

**Hazardous Reactions:** No dangerous reactions known.

**Conditions to Avoid:** Moisture, excess heat.

**Incompatibilities:** Oxidizing and Acidic materials. Strong bases. Reducing agents



**Hazardous Decomposition Products:** Carbon oxides.

Section 11. Toxicological Information

**Potential health effects**

**Inhalation:** May be harmful if inhaled. Causes respiratory tract irritation.

**Skin Contact:** Skin irritation

**Eye Contact:** Causes serious eye irritation

**Ingestion:** May be harmful if swallowed.

**Symptoms of Exposure:** Nausea, headache, vomiting, central nervous system depression.

**Numerical measures of Toxicity**

**Acute Toxicity**

**Oral:** LD 50 Rat 29,100 µL/kg

**Dermal:** LD 50 Rabbit >20 ml/kg

**Inhalation:** LC 50 Rat >5,000 mg/m<sup>3</sup>

**Additional Information**

**RTECS:** FF9650000

**Carcinogenicity:** No component of this product is identified as probable, possible or confirmed human carcinogen by IARC, ACGIH, NTP or OSHA.

Section 12. Ecological Information

**Eco toxicity**

**Fish:** LC 50 Leuciscus idus (Golden orfe) (96 hours) OECD 203

**Aquatic invertebrates:** EC 50 Daphnia magna (48 hours) OECD 202

**Algae:** EC 50 Desmodesmus subspicatus (96 hours) OECD 201

**Persistence and degradability:** Readily biodegradable.

**Bio accumulative potential:** No data available.

**Mobility in soil:** No data available.

Section 13. Disposal Considerations

**Waste Treatment Methods:** Dispose of product and contaminated packaging in accordance with all local, state, and federal environmental control regulations.

Section 14. Transport Information

Product is not regulated.



Section 15. Regulatory Information

**US FEDERAL**

**TSCA:** CAS# 108-32-7 is listed on the TSCA inventory.

**NFPA Rating**

**Health:** 2

**Fire:** 1

**Reactivity:** 1

**HMIS**

**Health:** 2

**Flammability:** 1

**Physical:** 0

Section 16. Other Information

**Disclaimer:** The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.

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