# Material Safety Data Sheet Propylene carbonate

ACC# 01357

## Section 1 - Chemical Product and Company Identification

MSDS Name: Propylene carbonate

Catalog Numbers: AC131560025, AC131560250, AC131565000, O4331-4

Synonyms: 1,2-Propanediol cyclic carbonate; PC; 4-Methyl-1,3-dioxolan-2-one; Cyclic 1,2-propylene carbonate; Cyclic methylene

carbonate; Carbonic acid cyclic propylene ester.

**Company Identification:** 

Fisher Scientific 1 Reagent Lane Fair Lawn, NJ 07410 For information, call: 201-796-7100

Emergency Number: 201-796-7100 For CHEMTREC assistance, call: 800-424-9300

For International CHEMTREC assistance, call: 703-527-3887

### Section 2 - Composition, Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
108-32-7	Propylene carbonate	>98	203-572-1

### Section 3 - Hazards Identification

#### **EMERGENCY OVERVIEW**

Appearance: clear, colorless liquid.

Warning! Causes eye and skin irritation. Hygroscopic (absorbs moisture from the air).

Target Organs: Eyes, skin.

#### **Potential Health Effects**

Eye: Causes eye irritation.

**Skin:** Causes skin irritation. A single prolonged skin exposure is not likely to result in the material being absorbed in harmful amounts.

Ingestion: No hazard expected in normal industrial use.

Inhalation: Low hazard for usual industrial handling. Material has a very low vapor pressure and inhalation exposures are not expected

unless material is heated or misted. **Chronic:** No information found.

### Section 4 - First Aid Measures

Eyes: In case of contact, immediately flush eyes with plenty of water for a t least 15 minutes. Get medical aid.

**Skin:** In case of contact, flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical aid if irritation develops and persists. Wash clothing before reuse.

**Ingestion:** If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical aid.

**Inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical

Notes to Physician: Treat symptomatically and supportively.

# Section 5 - Fire Fighting Measures

**General Information:** As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Use water spray to keep fire-exposed containers cool.

Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or chemical foam.

Flash Point: 123 deg C ( 253.40 deg F)

Autoignition Temperature: 430 deg C (806.00 deg F)

Explosion Limits, Lower:4.7% @ 200°C

**Upper:** 21% @ 200°C

NFPA Rating: (estimated) Health: 1; Flammability: 1; Instability: 0

## Section 6 - Accidental Release Measures

**General Information:** Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Provide ventilation.

## Section 7 - Handling and Storage

**Handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed.

**Storage:** Store in a cool, dry place. Store in a tightly closed container.

# Section 8 - Exposure Controls, Personal Protection

**Engineering Controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

**Exposure Limits** 

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Propylene carbonate	none listed	none listed	none listed

OSHA Vacated PELs: Propylene carbonate: No OSHA Vacated PELs are listed for this chemical.

Personal Protective Equipment Eyes: Wear chemical splash goggles.

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

**Clothing:** Wear appropriate protective clothing to prevent skin exposure.

**Respirators:** Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

## Section 9 - Physical and Chemical Properties

Physical State: Liquid Appearance: clear, colorless

Odor: odorless pH: 8.8 (aq soln)

Vapor Pressure: 0.00223 mm Hg @ 25 deg C

Vapor Density: 3.52 (air=1) Evaporation Rate:Not available. Viscosity: Not available. Boiling Point: 242 deg C

Freezing/Melting Point:-48.8 deg C
Decomposition Temperature:Not available.

Solubility: Moderately Soluble.

Specific Gravity/Density:1.206 @ 20°C

Molecular Formula:C4H6O3 Molecular Weight:102.09

## Section 10 - Stability and Reactivity

Chemical Stability: Stable under normal temperatures and pressures. Hygroscopic: absorbs moisture or water from the air.

Conditions to Avoid: Moisture.

**Incompatibilities with Other Materials:** Strong oxidizing agents. **Hazardous Decomposition Products:** Carbon monoxide, carbon dioxide.

Hazardous Polymerization: Will not occur.

## Section 11 - Toxicological Information

RTECS#:

**CAS#** 108-32-7: FF9650000

**LD50/LC50:** CAS# 108-32-7:

Draize test, rabbit, eye: 60 mg Moderate; Draize test, rabbit, skin: 500 mg Moderate; Inhalation, rat: LC50 = >5 gm/m3;

Oral, mouse: LD50 = 20700 mg/kg; Oral, rat: LD50 = 29100 uL/kg; Skin, rabbit: LD50 = >20 mL/kg;

Carcinogenicity:

CAS# 108-32-7: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No information found Teratogenicity: No information found Reproductive Effects: No information found Mutagenicity: No information found Neurotoxicity: No information found

**Other Studies:** 

## Section 12 - Ecological Information

No information available.

# Section 13 - Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed. RCRA U-Series: None listed.

# Section 14 - Transport Information

	US DOT	Canada TDG
Shipping Name:	Not Regulated	Not Regulated
Hazard Class:		
UN Number:		
Packing Group:		

## Section 15 - Regulatory Information

#### **US FEDERAL**

#### **TSCA**

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

#### **Health & Safety Reporting List**

None of the chemicals are on the Health & Safety Reporting List.

#### **Chemical Test Rules**

None of the chemicals in this product are under a Chemical Test Rule.

## Section 12b

None of the chemicals are listed under TSCA Section 12b.

#### **TSCA Significant New Use Rule**

None of the chemicals in this material have a SNUR under TSCA.

### **CERCLA Hazardous Substances and corresponding RQs**

None of the chemicals in this material have an RQ.

## **SARA Section 302 Extremely Hazardous Substances**

None of the chemicals in this product have a TPQ.

#### **SARA Codes**

CAS # 108-32-7: immediate.

**Section 313** No chemicals are reportable under Section 313.

### Clean Air Act:

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depletors.

This material does not contain any Class 2 Ozone depletors.

#### **Clean Water Act:**

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

#### OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

### STATE

CAS# 108-32-7 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

#### California Prop 65

California No Significant Risk Level: None of the chemicals in this product are listed.

### **European/International Regulations**

**European Labeling in Accordance with EC Directives** 

### Hazard Symbols:

ΧI

### **Risk Phrases:**

R 36 Irritating to eyes.

### **Safety Phrases:**

#### WGK (Water Danger/Protection)

CAS# 108-32-7: 0

# Canada - DSL/NDSL

CAS# 108-32-7 is listed on Canada's DSL List.

### Canada - WHMIS

This product has a WHMIS classification of D2B.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations.

## Canadian Ingredient Disclosure List

CAS# 108-32-7 is listed on the Canadian Ingredient Disclosure List.

# Section 16 - Additional Information

**MSDS Creation Date:** 5/20/1999 **Revision #4 Date:** 12/06/2005

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Fisher be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Fisher has been advised of the possibility of such damages.