



Material Safety Data Sheet

Propylene carbonate

MSDS# 01357

Section 1 - Chemical Product and Company Identification

MSDS Name: Propylene carbonate

Catalog Numbers: AC131560000, AC131560010, 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: Acros Organics BVBA  
Janssen Pharmaceuticaaan 3a  
2440 Geel, Belgium

Company Identification: (USA) Acros Organics  
One Reagent Lane  
Fair Lawn, NJ 07410

For information in the US, call: 800-ACROS-01

For information in Europe, call: +32 14 57 52 11

Emergency Number, Europe: +32 14 57 52 99

Emergency Number US: 201-796-7100

CHEMTREC Phone Number, US: 800-424-9300

CHEMTREC Phone Number, Europe: 703-527-3887

Section 2 - Composition, Information on Ingredients

CAS#: 108-32-7  
Chemical Name: Propylene carbonate  
%: >98  
EINECS#: 203-572-1

Hazard Symbols: XI



Risk Phrases: 36

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Warning! Hygroscopic (absorbs moisture from the air). Causes eye and skin irritation. 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 at room temperature, so 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 at 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 aid.

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.

Autoignition Temperature: 430 deg C ( 806.00 deg F)

Flash Point: 123 deg C ( 253.40 deg F)

Explosion Limits: Lower: 4.7% @ 200°C

Explosion Limits: Upper: 21% @ 200°C

NFPA Rating: 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

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

OSHA Vacated PELs: Propylene carbonate: None listed

#### 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

#### 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

Color: 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 ( 467.60°F)

Freezing/Melting Point: -48.8 deg C ( -55.84°F)

Decomposition Temperature: Not available

Solubility in water: 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

RTECS:

**CAS# 108-32-7:** Draize test, rabbit, eye: 60 mg Moderate;

Draize test, rabbit, skin: 500 mg Moderate;

LD50/LC50:

Inhalation, rat: LC50 = >5 gm/m<sup>3</sup>;

Oral, mouse: LD50 = 20700 mg/kg;

Oral, rat: LD50 = 29100 uL/kg;

Skin, rabbit: LD50 = >20 mL/kg;

Carcinogenicity:

Propylene carbonate - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:

See actual entry in RTECS for complete information.

#### Section 12 - Ecological Information

Not available

#### Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

#### Section 14 - Transport Information

US DOT

Shipping Name: Not Regulated

Hazard Class:

UN Number:

Packing Group:

Canada TDG

Shipping Name: Not regulated as a hazardous material

Hazard Class:

UN Number:

Packing Group:

#### Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: XI

Risk Phrases:

R 36 Irritating to eyes.

Safety Phrases:

WGK (Water Danger/Protection)

CAS# 108-32-7: 0

Canada

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

Canadian WHMIS Classifications: 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.

CAS# 108-32-7 is listed on Canada's Ingredient Disclosure List

US Federal

TSCA

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

Section 16 - Other Information

MSDS Creation Date: 5/20/1999

Revision #6 Date 7/20/2009

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 the company 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 the company has been advised of the possibility of such damages.

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