

Material Safety Data Sheet

Product Name: **Propylene Carbonate**

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Safety data for **Propylene Carbonate**

1. Product Identification

Synonyms: 1,3-Dioxolan-2-one, 4-methyl-

CAS No.: 108-32-7

Molecular Weight: 102.09

Chemical Formula: C₄H₆O₃

Product Codes: U497

2. Composition/Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
1,3-Dioxolan-2-one, 4-methyl-	108-32-7	90 - 100%	Yes

3. Hazards Identification

Emergency Overview

CAUTION! MAY CAUSE IRRITATION.

SAF-T-DATA(tm) Ratings (Provided here for your convenience)

Health Rating: 1 - Slight

Flammability Rating: 1 - Slight

Reactivity Rating: 1 - Slight

Contact Rating: 1 - Slight

Lab Protective Equip: GOGGLES; LAB COAT; PROPER GLOVES

Storage Color Code: Green (General Storage)

Potential Health Effects

Inhalation:

Tightness and pain in chest, coughing, difficult breathing.

Ingestion:

None identified.

Skin Contact:

Prolonged contact may cause irritation.

Eye Contact:

Irritation.

Chronic Exposure:

No information found.

Aggravation of Pre-existing Conditions:

No information found.

4. First Aid Measures

Inhalation:

If a person breathes in large amounts, move the exposed person to fresh air.

Ingestion:

If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact:

In case of contact, immediately wash skin with plenty of soap and water for at least 15 minutes.

Eye Contact:

In case of eye contact, immediately flush with plenty of water for at least 15 minutes.

5. Fire Fighting Measures

Fire:

Flash point: 135C (275F) CC

Explosion:

No information found.

Fire Extinguishing Media:

Use extinguishing media appropriate for surrounding fire.

Special Information:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full facepiece operated in positive pressure mode.

6. Accidental Release Measures

Wear suitable protective clothing. Take up with sand or other non-combustible absorbent material and place into container for later disposal. Flush spill area with water.

7. Handling and Storage

Keep container tightly closed. Suitable for any general chemical storage area. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

8. Exposure Controls/Personal Protection

Airborne Exposure Limits:

None established.

Ventilation System:

In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to the substance is apparent and engineering controls are not feasible, consult an industrial hygienist. For emergencies, or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area.

9. Physical and Chemical Properties

Appearance:

Colorless liquid.

Odor:

Odorless.

Solubility:

Moderate (1-10%)

Specific Gravity:

1.20

pH:

No information found.

% Volatiles by volume @ 21C (70F):

0

Boiling Point:

241C (466F)

Melting Point:

-49C (-56F)

Vapor Density (Air=1):

Not applicable.

Vapor Pressure (mm Hg):

0.03 @ 20C (68F)

Evaporation Rate (BuAc=1):

No information found.

10. Stability and Reactivity

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Carbon monoxide, carbon dioxide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Water, strong oxidizing agents.

Conditions to Avoid:

Air, heat.

11. Toxicological Information

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
1,3-Dioxolan-2-one, 4-methyl- (108-32-7)	No	No	None

12. Ecological Information

Environmental Fate:

No information found.

Environmental Toxicity:

No information found.

13. Disposal Considerations

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. Transport Information

Not regulated.

15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----

Ingredient	TSCA	EC	Japan	Australia
1,3-Dioxolan-2-one, 4-methyl- (108-32-7)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----

Ingredient	--Canada--			
	Korea	DSL	NDSL	Phil.
1,3-Dioxolan-2-one, 4-methyl- (108-32-7)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----

Ingredient	-SARA 302-			-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.	
1,3-Dioxolan-2-one, 4-methyl- (108-32-7)	No	No	No	No	

-----\Federal, State & International Regulations - Part 2\-----

Ingredient	-RCRA-		-TSCA-	
	CERCLA	261.33	8(d)	
1,3-Dioxolan-2-one, 4-methyl- (108-32-7)	No	No	No	

Chemical Weapons Convention: No TSCA 12(b): No CDTA: No

SARA 311/312: Acute: No Chronic: No Fire: No Pressure: No

Reactivity: No (Pure / Liquid)

Poison Schedule: None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

References: 1. Safety Management for Chemicals at Working Spot

2. Safety Handbook for Hazardous Goods

3. All-Round Book for Safety Technology Hazardous Chemicals

4. Register Regulation for Hazardous Chemicals

Writing Date: Sep, 2004

Writing Organization: Shenzhen HonestChem Chemical Co.,Ltd

Data Inspected by : Shenzhen HonestChem Chemical Co.,Ltd

Writing Account :

Writing according to Rules for Writing MSDS (GB16483-2000).

Others:

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS