

Propylene Carbonate SDS Revision Date (mm/dd/yyyy): 11/12/2024

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SAFETY DATA SHEET

SECTION 1. IDENTIFICATION

Product identifier used on the I	label	
:	Propylene Carbonate	
Other means of identification :	None reported.	
Recommended use of the chen	nical and restrictions on use	
	Use pattern: Professional Use Restriction on use: None know	5
Chemical family :	Carbonic acid ester	
Name, address, and telepho of the supplier:	one number	Name, address, and telephone number of the manufacturer:
Comet Chemical Company I	Ltd.	Refer to supplier
3463 Thomas Street Innisfill, ON, Canada L9S 3W4		
Supplier's Telephone # :	(705) 436 5580	
24 Hr. Emergency Tel # :	GFL Environmental - 1-888-772	2-2543
SECTION 2 HAZARDS IDEN	NTIFICATION	

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical

Clear yellow liquid. Odourless.

Most important hazards: Causes serious eye irritation.

This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification: Serious eye damage/eye irritation - Category 2A

Label elements

Hazard pictogram(s)



Warning!

Hazard statement(s)

Causes serious eye irritation.

Precautionary statement(s)

Wash thoroughly after handling. Wear eye/face protection. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.



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Other hazards

Other hazards which do not result in classification: Ingestion may cause irritation of the mouth, throat and stomach. Direct skin contact may cause slight or mild, transient irritation.

Environmental precautions:

Avoid release to the environment. See ECOLOGICAL INFORMATION, Section 12.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance

Chemical name		Common name and synonyms	<u>CAS #</u>	Concentration (% by weight)
Propylene carbonate		Carbonic acid cyclic methylethylene ester	108-32-7	>99
SECTION 4. FIRST-AID M	IEASURF	ES		
Description of first aid meas	ures			
Ingestion		t induce vomiting. Rinse mouth		
Inhalation	: Imme	scious person. Get medical atte diately remove person to fresh a ation. If breathing is difficult, giv	air. If breathing ha	s stopped, give artificial
		POISON CENTER or doctor/pr		
Skin contact		affected areas with soap and we re-use. Get medical attention i		
Eye contact	: Flush	with large amounts of water for asy to do. If irritation or sympto	15 minutes. Rem	ove contact lenses, if present
Most important symptoms a	nd effects	both acute and delayed		
Indication of any immediate	gastro medical a	ng.Direct skin contact may caus bintestinal irritation, nausea, von ittention and special treatmen	niting and diarrhea	
		symptomatically.		
SECTION 5. FIRE-FIGHT	ING MEA	ASURES		
Extinguishing media Suitable extinguishing med	lia			
		nedia suitable to the surrounding s, carbon dioxide and dry chemi		er fog or fine spray, alcohol
Unsuitable extinguishing m	edia			
		ot use a solid water stream as i	•	spread fire.
Special hazards arising from	n the subs	tance or mixture / Conditions	of flammability	
		ed containers may rupture if exp ernal pressure.	oosed to excess h	eat or flame due to a build-up
Flammability classification (OSHA 29	CFR 1910.106)		
	: Not fla	ammable.		
Hazardous combustion prod	lucts			
		on oxides		
Special protective equipment	-	cautions for firefighters		

Protective equipment for fire-fighters



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: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. A full-body chemical resistant suit should be worn. Do not enter without wearing specialized protective equipment suitable for the situation. Firefighter's normal protective clothing (Bunker Gear) will not provide adequate protection. A full-body encapsulating chemical protective suit with positive pressure self-contained breathing apparatus (NIOSH approved or equivalent) may be necessary.

Special fire-fighting procedures

Evacuate personnel to safe areas. Move containers from fire area if safe to do so.Water spray may be useful in cooling equipment exposed to heat and flame. Dike for water control.Avoid release to the environment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Environmental precautions Methods and material for co	:	All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release. Restrict access to area until completion of clean-up. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment. Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. For large spills, dike the area to prevent spreading. inment and cleaning up
	:	Ventilate the area. Prevent further leakage or spillage if safe to do so. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities.
Special spill response proce	edu	res
	:	In Canada:For 24-hour emergency assistance, call: 1-613-996-6666 (CANUTEC). US CERCLA Reportable quantity (RQ): None reportable.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

	:	Use only outdoors or in a well-ventilated area. Wear suitable protective equipment.Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Keep away from heat and flame. Keep away from incompatibles.Label containers
		appropriately. Wash thoroughly after handling. Keep containers closed when not in use.
Conditions for safe storage	:	Store in a cool, dry, well-ventilated area. Store away from incompatibles and out of direct sunlight.Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking in the area.
Incompatible materials	:	Strong oxidizers, acids and bases.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:				
Chemical Name	ACGI	H TLV	<u>OSH</u>	<u> PEL</u>
	<u>TWA</u>	<u>STEL</u>	PEL	<u>STEL</u>
Propylene carbonate	N/Av	N/Av	N/Av	N/Av

COMET COMET CHEMICAL COMPANY LTD. Comet Chemical Company Ltd. 3463 Thomas Street Innisfill, ON, Canada, L9S 3W4 Telephone: (705) 436 5580

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Ventilation and engineering measures

	Provide exhaust ventilation or other engineering controls to keep the airborne concentration of vapours below their respective threshold limit value.	
Respiratory protection	Respiratory protection is required if the concentrations exceed the TLV. Use a NI approved dust respirator if dust levels exceed exposure limits. Seek advice fror respiratory protection specialists.	
Skin protection	Wear protective gloves. The suitability for a specific workplace should be discust with the producers of the protective gloves.	
Eye / face protection	Wear eye/face protection. Chemical goggles must be worn to prevent dusts from entering the eyes.	
Other protective equipment	An eyewash station and safety shower should be made available in the immedi working area. Other equipment may be required depending on workplace standa	
General hygiene consideration		
	Avoid breathing mist or vapours. Avoid contact with skin, eyes and clothing. Do reat, drink, smoke or use cosmetics while working with this product. Upon comple	

work, wash hands before eating, drinking, smoking or use of toilet facilities. Remove

soiled clothing and wash it thoroughly before reuse.
SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	: Liquid
Colour	: clear yellow
Odour	: Odorless.
Odour threshold	: No information available.
рН	: 7
Melting Point/Freezing point	: -49°C
Initial boiling point and boiling	g range
	: 240°C
Flash point	: 116°C
Flashpoint (Method)	: Not applicable.
Evaporation rate (BuAe = 1)	: No information available.
Flammability	: Not applicable.
Lower explosion or flammabi	
	: 1.9%
Upper explosion or flammabi	
	: N/Ap
Oxidizing properties	: None known.
Explosive properties	
	: 0.04-0.17 hPa @ 20°C
Relative vapour density	. , =
Relative density / Specific gra	-
	: 1.205g/cm3
Solubility in water	: Soluble (200g/l)
Other solubility(ies)	: No information available.
Partition coefficient: n-octane	pl/water or Coefficient of water/oil distribution
	: -0.5
Auto-ignition temperature	: 430°C
Decomposition temperature	
Viscosity	: 2.76 mPas
Particle characteristics	: Not applicable.
Volatiles (% by weight)	: No information available.



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Volatile organic Compounds (VOC's)

: No information available.

Absolute pressure of container : N/Ap

Flame projection length : N/Ap

Other physical/chemical comments

: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY

Reactivity	Not normally reactive.	
Chemical stability	Stable under normal conditions.	
Possibility of hazardous rea	ns	
	Hazardous polymerization does not occur.	
Conditions to avoid	Ensure adequate ventilation, especially in confined areas. Avoid contact with incompatible materials.	
Incompatible materials	Strong oxidizers, acids and bases.	
Hazardous decomposition	ucts	
	None known, refer to bezerdous compustion products in Section 5	

: None known, refer to hazardous combustion products in Section 5.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation	:	YES
Routes of entry skin & eye	:	YES
Routes of entry Ingestion	:	YES
Routes of exposure skin abs	orp	otion

Potential Health Effects:

Signs and symptoms of short-term (acute) exposure

: NO

Sign and symptoms Inhalation	on	
	:	May cause respiratory tract irritation.
Sign and symptoms ingestio	n	
	:	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Sign and symptoms skin	:	May cause mild skin irritation on prolonged contact.
Sign and symptoms eyes	:	Causes serious eye irritation. Symptoms may include stinging, tearing, redness and swelling.
Potential Chronic Health Effe	ect	S
	:	Prolonged exposure can cause redness, swelling, itching, cracking of the skin, dermatitis and sensitization.
Mutagenicity	:	Not expected to be mutagenic in humans.
Carcinogenicity	:	No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects & Terat	og	enicity
	:	Not expected to have other reproductive effects.
Sensitization to material	:	Not expected to be a skin or respiratory sensitizer.
Specific target organ effects	:	This material is not classified as hazardous under U.S. OSHA regulations (29 CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).



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Medical conditions aggravated by overexposure

: Pre-existing skin, eye and respiratory disorders.

Synergistic materials : No information available.

Toxicological data : See below for toxicological data on the substance.

	LC₅₀(4hr)	LDe	0
Chemical name	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Propylene carbonate	N/Av	>5000 mg/kg	>5000mg/kg

Other important toxicological hazards

: See Section 3 for additional information.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

: Not expected to be harmful to aquatic organisms. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters. See the following tables for individual ingredient ecotoxicity data.

Ecotoxicity data:

Ingradianta	CAS #	Toxicity to Fish		
<u>Ingredients</u>	CAS #	LC50 / 96h	NOEC / 21 day	M Factor
Propylene carbonate	108-32-7	>1000mg/L (common carp)	N/Av	None.

Ingredients	CAS #	Toxicity to Daphnia				
		EC50 / 48h	NOEC / 21 day	M Factor		
Propylene carbonate	108-32-7	1000 mg/L (Daphnia magna)	N/Av	None.		

Ingredients	CAS #	То		
		EC50 / 96h or 72h	NOEC / 96h or 72h	M Factor
Propylene carbonate	108-32-7	>900 mg/L (Green algae)	>929mg/L (Green algae)	None.

Persistence and degradability

: Readily biodegradable

Bioaccumulation potential : Not expected to bioaccumulate.

<u>Components</u>	Partition coefficient n-octanol/water (log Kow)	Bioconcentration factor (BCF)
Propylene carbonate (CAS 108-32-7)	-0.5	3



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Other Adverse Environmental effects

: No data is available on the product itself.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal	:	Handle waste according to recommendations in Section 7. Empty containers may contain hazardous residues.
Methods of Disposal	:	Dispose in accordance with all applicable federal, state, provincial and local regulations.
RCRA	:	If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method.

SECTION 14. TRANSPORT INFORMATION

Regulatory Information	UN Number	UN proper shipping name	Transport hazard class(es)	Packing Group	Label
TDG	None.	Not regulated.	not regulated	none	\bigotimes
TDG Additional information	None.				
49CFR/DOT	None.	Not regulated.	not regulated	none	\bigotimes
49CFR/DOT Additional information	None.				
IMDG	None.	Not regulated.	not regulated	none	\bigotimes
IMDG Additional information	None.		-		
ICAO/IATA	None.	Not regulated.	not regulated	none	\bigotimes
ICAO/IATA Additional information	None.		-		
Special preca Environmenta		 Appropriate advice on safety must accompany This substance does not meet the criteria for according to the IMDG Code. See Section 12 	an environmer	ntally haza	

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:



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		TSCA CERCL Reportal		Extransly	SARA TITLE III: Sec. 313, 40 CFR 372, Specific Toxic Chemical		
Ingredients	CAS #	Inventory	Quantity(RQ) (40 CFR 117.302):	Hazardous Substance, 40 CFR 355:	Toxic Chemical	de Minimis Concentration	
Propylene carbonate	108-32-7	Yes	N/Ap	N/Av	No	No	

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Eye irritation.

US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

Ingredients	CAS #	California	State "Right to Know" Lists						
	-	Listed	Type of Toxicity	CA	MA	MN	NJ	PA	RI
Propylene carbonate	108-32-7	No	N/Ap	No	No	No	No	No	No

Canadian Information:

All ingredients are present on the DSL.

International Information:

Components listed below are present on the following International Inventory list:

Ingredients	CAS #	European EINECs	Australia AICS	Philippines PICCS	Japan ENCS	Korea KECI/KECL	China IECSC	NewZealand IOC
Propylene carbonate	108-32-7	203-572-1	Present	Present	(5)-524; (7)-737	KE-23785	Present	HSR003348

SECTION 16. OTHER INFORMATION

Legend	: ACGIH: American Conference of Governmental Industrial Hygienists
	CAS: Chemical Abstract Services
	CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
	of 1980
	CNS: Central Nervous System
	COC: Cleveland Open Cup
	CSA: Canadian Standards Association
	DOT: Department of Transportation
	EPA: Environmental Protection Agency
	IARC: International Agency for Research on Cancer
	LC: Lethal Concentration
	LD: Lethal Dose
	N/Ap: Not Applicable
	N/Av: Not Available
	NIOSH: National Institute of Occupational Safety and Health
	NTP: National Toxicology Program
	OSHA: Occupational Safety and Health Administration
	PEL: Permissible exposure limit
	SARA: Superfund Amendments and Reauthorization Act
	STEL: Short Term Exposure Limit
	TLV: Threshold Limit Values
	TWA: Time Weighted Average



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References Preparation Date (mm/dd/	 1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices 2. ECHA - European Chemical Agency 3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases 4. Safety Data Sheets from manufacturer. 5. US EPA Title III List of Lists 6. California Proposition 65 List 7. OECD - The Global Portal to Information on Chemical Substances - eChemPortal
Reviewed Date SDS (dd/n	: 05/28/2019 m/yyyy)
Revision No. Revision Information Other special considerati	•
	: Provide adequate information, instruction and training for operators.



DISCLAIMER

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