



SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

SDS Number: M3581 **Effective Date:** 2/27/2015 **Supersedes:** 09/15/2011

Product Name: Propylene Carbonate

Synonyms: PC

Product Code: SMC Spec. 3581

Recommended Use: Chemical processing
VOC Exempt solvent

Restrictions on Use: Not determined

Company Identification: Special Materials Company
70 West 40th Street
New York, New York 10018

Phone: (646) 366-0400

Fax: (646) 366-0595

CHEMTREC (emergency): 800-424-9300 **Outside USA:** (703) 527-3887

SECTION 2 – HAZARDS IDENTIFICATION

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Serious eye damage/eye irritation Category 2A

GHS Label elements

Signal word Warning

GHS Label elements

Hazard Statement:

H319 Causes serious eye irritation.

Precautionary statement(s)

P280 Wear eye/face protection.

P264 Wash with plenty of water and soap thoroughly after handling.

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 + P311 If eye irritation persists: Call a POISON CENTER or doctor/physician.



Hazard Pictograms



Other Hazards: None known

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS	CAS#	% (by weight)	OSHA PEL		ACGIH TWA		SARA TITLE III	RQ LBS
			PPM	MG/M ³	PPM	MG/M ³		
Propylene Carbonate	108-32-7	99.5 - 100	None		None			

SECTION 4 – FIRST AID MEASURES

Most Important Symptoms/Effects (acute, delayed): May cause eye, skin and respiratory irritation.

Special Treatment: None determined

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

Eyes: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

SECTION 5 – FIRE FIGHTING MEASURES

General fire hazards: Product will support combustion. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

Extinguishing media
Suitable extinguishing media: Use suitable agents for the surrounding fire. Do not use solid stream of water since stream will scatter and spread fire. Fine water spray can be used to keep fire - exposed containers cool.

Unsuitable extinguishing media: None known.



SAFETY DATA SHEET
Propylene Carbonate

Special hazards arising from the substance or mixture:

Closed containers can explode due to buildup of pressure when exposed to extreme heat.

Advice for firefighters

Special firefighting procedures:

None known.

Special protective

equipment for fire-fighters:

Firefighters must wear full face, self-contained breathing apparatus with full protective clothing to prevent contact with skin and eyes. Fumes from fire are hazardous. Isolate runoff to prevent environmental pollution.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Personal precautions

Use personal protective equipment. Avoid breathing dust and contact with skin and eyes. Ensure adequate ventilation. Evacuate personnel to safe areas

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Confine spill, soak up with approved absorbent, shovel product into suitable container for disposal.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Keep container closed when not in use; protect containers from abuse and protect from extreme temperatures, open flames. This material will support combustion.

Precautions for safe handling

Avoid generating mist.

Conditions for safe storage, including any incompatibilities

Store in cool, dry well-ventilated area. Keep away from strong oxidizers and strong acids.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS (exposure or biological limits values)

The use of local exhaust ventilation is recommended.

RESPIRATORY PROTECTION (SPECIFY TYPE): NIOSH approved respirator designed to remove airborne particulates and vapor. Refer to 29 CFR 1910.134 or European Standard EN 149 for regulations.

PROTECTIVE GLOVES: Nitrile or rubber gloves

EYE PROTECTION: Chemical splash goggles. Refer to 29 CFR 1910.133 or European Standard EN166.



OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Coveralls, apron, or other equipment should be worn to minimize skin contact, safety eyewash station nearby.

WORK / HYGIENIC PRACTICES: Practice safe workplace habits. Minimize body contact with this, as well as all chemicals in general.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Colorless to light yellow transparent liquid
Odor	Slight odor
Odor threshold	Not available
pH	Not available
Melting point/freezing point	- 56 ^o F (- 48.9 ^o C)
Initial boiling point and boiling range	468 ^o F (242.2 ^o C)
Flash point	275 ^o F (135 ^o C) TCC
Evaporation rate	<0.1
Flammability (solid, gas)	Not applicable
Upper/lower flammability or explosive limits	1.7 to 32.5 %
Vapor pressure	0.03 mm Hg @ 20 ^o C
Vapor density	Not available
Relative density	1.195 – 1.205 g/cm ³ @ 20 ^o C
Solubility (water)	21 %
Partition coefficient: n-octanol/water	-0.41
Auto-ignition Temperature	806 ^o F (430 ^o C)
Decomposition temperature	572 ^o F (300 ^o C)
Viscosity	Not available

SECTION 10 – STABILITY AND REACTIVITY

Reactivity
Stable

Chemical stability
Stable under recommended storage conditions

Possibility of hazardous reactions
None known.

Conditions to avoid (e.g. static discharge, shock or vibration)
Heat, sparks, open flame, other ignition sources, and oxidizing conditions.

Incompatible materials
Strong oxidizing agents, Peroxides, Strong acids. Strong bases.

Hazardous decomposition products
Products of combustion include smoke, fumes or vapors, carbon oxides to include toxic carbon monoxide, hydrocarbons.



SECTION 11 – TOXICOLOGICAL INFORMATION

Acute toxicity

LD50 Oral: 20,700 mg / kg - rat
LD50 Dermal: > 20,001 mg/kg - rabbit
LC50 Inhalation: > 5,000 mg /m³ - rat

Skin corrosion/irritation

Skin – rabbit: No irritation

Serious eye damage/eye irritation

Eyes – rabbit: Irritant

Respiratory or

skin sensitization: No sensitization

Germ cell mutagenicity: Negative

Reproductive toxicity: No effects have been reported in reproductive organs.

Specific target organ

toxicity - single exposure: No data available.

Specific target organ toxicity

- repeated exposure: No data available

Aspiration hazard: No data available

Carcinogenicity

IARC, OSHA NTP: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Likely routes of exposure: Inhalation, eye and skin contact, and ingestion

Potential health effects

Inhalation: Inhalation of vapor or mist may be irritating to respiratory tract.

Skin: Contact with skin may cause irritation.

Eye: Contact with eyes causes irritation.

Ingestion: Material may be harmful if swallowed.

Reproductive

toxicity: No data available

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

SECTION 12 – ECOLOGICAL INFORMATION

Toxicity

Golden orfe (*Leuciscus idus melanotus*) LC50 5300 mg / l96 hour
Water Flea (*Daphnia magna*) EC50 > 500 mg / l48 hour

Persistence and degradability Readily biodegradable



SAFETY DATA SHEET
Propylene Carbonate

Bio accumulative potential	Not expected to bio accumulate
Mobility in soil	No data available
Results of PBT and vPvB assessment	No data available
Other adverse effects	No data available

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. Do not flush to sanitary sewer or waterway.

SECTION 14 – TRANSPORT INFORMATION

Proper Shipping Name: Not Regulated

DOT Hazard Class / Pack Group: Not Regulated

IATA Hazard Class / Pack Group: Not Regulated

Reference: Not Applicable

IMDG Hazard Class: Not Regulated

UN/NA Identification Number: None

RID/ADR Hazard Class/Pack Group: Not Regulated

Label: None required

UN TDG Class / Pack Group: Not Regulated

Special precautions: None

Note: Transportation information provided is for reference only. Client is urged to consult CFR 49 parts 100 - 177, IMDG, IATA, EC, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

SECTION 15 – REGULATORY INFORMATION

TSCA Toxic Substance Control Act)

Listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory).

SARA Title III (311,312)

311/312 Hazard Categories.
Immediate (acute) health hazard

313 reportable Ingredients: None

CERCLA Hazardous Substance

None

California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986

Not listed

CPR (Canadian Controlled Products Regulations)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Not controlled.



SAFETY DATA SHEET
Propylene Carbonate

IDL (Canadian Ingredient Disclosure List)

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 3.

DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)

This product is listed on the DSL

EINECS (European Inventory of Existing Commercial Chemical Substances)

This product is listed on the European Inventory of Existing Commercial Chemical Substances.

SECTION 16 – OTHER INFORMATION

Specific toxicity tests have not been conducted on this product. Our hazard evaluation is based on Information from similar products, the ingredients, technical literature, and/or professional experience.

HMIS HAZARD RATINGS	Health	1	*= Chronic Health Hazard	2= Moderate
	Flammability	1	0= Insignificant	3= High
	Physical Hazard	0	1= Slight	4= Extreme

Personal Protective Equipment: S Splash Goggles, Gloves, Apron

Revision Summary:

This SDS has been revised in the following sections: 1, 2, 3, 5, 6, 7, 8, 9, 10, 11, 12, 15 and 16.

SDS Prepared by:

Special Materials Company
70 West 40th Street
New York, New York 10018
Tel.: 646-366-0400
www.smc-global.com

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.