



MATERIAL SAFETY DATA SHEET
According to REACH regulation EC No.
1907/2006, Annex II, Amended by COMMISSION
REGULATION (EU) 2015/830,
According to REGULATION (EC) No 1272/2008

MSDS No.

M-01

Propylene Carbonate (PC)

Effective
From

19.06.2020

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Trade Name	Propylene Carbonate (PC)
Synonyms	Carbonic acid, propylene ester, 1,2-propanediol carbonate
Chemical Formula	C ₄ H ₆ O ₃
CAS-Number	108-32-7
Molecular Weight	102.09 g·mol ⁻¹
REACH REGISTRATION NUMBER	01-2119537232-48-XXXX
REACH Only Representative	Chemical Inspection and Regulation Service Limited

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses
Reactive diluents for urethane and epoxy resins; Cleaner and degreasers; Cosmetics additives; Paint stripper; Foundry sand binder catalyst; wood binding resins; Coal mining; excavation and tunneling; Setting agent in chemical grouting to get easily controlled gel time; Isocyanate and unsaturated polyester resin cleanup solvent, Viscosity reducer in coatings, CO ₂ extraction and Textile dye carrier and cleaner

1.3. Manufacturer / Supplier Contact Information :

Name	Bloomchemag BV
Address	Sint-Antoniusstraat 16 b1 B-2400, Mol, Belgium
Telephone	+91 72919 74050/ 72919 74484/ 98713 71594
Email	info@bloomchemag.com

SECTION 2: Hazard Identification

2.1. Classification of the substance or mixture

2.1.1 Classification:

The substance is classified as following according to REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Eye Irrit. 2	H319



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2.2 Label elements:



Hazard Pictograms:

Warning Eye Irrit. 2

Signal Word(S): Warning

Hazard Statement: H319: Causes serious eye irritation.

Precautionary statement: P264: Wash hands thoroughly after handling.
P280: Wear protective gloves/ protective clothing/eye protection/face protection.
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+P313: If eye irritation persists: Get medical advice/attention.

2.3 Other hazards:

The substance is not considered a PBT/vPvB.

SECTION 3: SECTION 3: Composition and Information on the Ingredients

3.1 Substance

Material Name	Propylene carbonate
CAS No	108-32-7
Index No.	607-194-00-1
EINECS NO	203-572-1
Risk phases	R36 and H319

For full text of R phrases see section 15.

SECTION 4: First Aid Measurements

4.1. Emergency Overview/ First Aid Measures

Inhalation	Unlikely to cause harmful effects under normal conditions of handling and use. Obtain medical attention. Remove patient from exposure. Give oxygen if breathing difficult. Apply artificial respiration if necessary.
Ingestion	Unlikely to cause harmful effects under normal conditions of handling and use. Obtain medical attention. If swallowed, rinse mouth with water (only if the person is conscious).



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Skin Contact	Slight/mild irritant. Obtain medical attention. Remove contaminated clothing immediately and wash affected skin with soap and water.
Eye Contact	Irritating to eyes. Redness, Swelling, Tears. Obtain medical attention. If substance has got into the eyes, immediately wash out with plenty of water for at least 15minutes. Hold eyelids apart
Chronic	Unlikely to cause harmful effects under normal conditions of handling and use.

SECTION 5 : FIRE-FIGHTING MEASURES

Flammability- Combustible

Extinguishing Mode- Extinguish preferably with dry chemical, sand, foam or carbon dioxide.

Unsuitable Extinguishing media- Do not use water jet

Firefighting Protective Equipment- A self-contained breathing apparatus and suitable protective clothing should be worn in fire conditions

Fire fighting method- Keep containers cool by spraying with water if exposed to fire.

Hazardous Decomposition Products- Carbon dioxide, Carbon monoxide

SECTION 6: Accidental Release Measures

Personal Precautions- Put on protective clothing. See Section: 8. Ensure adequate ventilation.

Environmental Exposure Controls- Adsorb spillages onto sand, earth or any suitable adsorbent material. Transfer to a closed container for recycling or disposal. To be disposed of as hazardous waste. Consult an accredited waste disposal contractor or the local authority for advice.

Other- Do not allow to enter drains, sewers or watercourses.

SECTION 7: HANDLING AND STORAGE



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Handling- Avoid contact with skin and eyes. Avoid breathing mist/vapors. Follow the principles of good occupational hygiene to control personal exposures.

Storage- Keep container tightly closed, dry and in a cool well-ventilated place. Keep away from oxidizing agents, acids, alkalis; **Storage Temperature:** Keep at a temperature not exceeding 25 °C:

Other information- Keep away from moisture.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters

Workers - Hazard via inhalation route	Systemic effects-Long term exposure	DNEL=70.53 mg/m ³
Workers - Hazard via inhalation route	Local effects-Long term exposure	DNEL=20 mg/m ³
Workers - Hazard via dermal route	Systemic effects-Long term exposure	DNEL=20 mg/kg bw/day
Workers - Hazard via dermal route	Local effects-Long term exposure	DNEL=10 mg/cm ²
General Population - Hazard via inhalation route	Systemic effects-Long term exposure	DNEL=17.4 mg/m ³
General Population - Hazard via inhalation route	Local effects-Long term exposure	DNEL=10 mg/m ³
General Population - Hazard via dermal route	Systemic effects-Long term exposure	DNEL=10 mg/kg bw/day
General Population - Hazard via oral route	Systemic effects-Long term exposure	DNEL=10 mg/kg bw/day
Hazard for aquatic organisms	Freshwater	PNEC=0.9 mg/L
Hazard for aquatic organisms	Marine water	PNEC=0.09 mg/L
Hazard for aquatic organisms	Intermittent releases	PNEC=9 mg/L
Hazard for aquatic organisms	STP	PNEC=7 400 mg/L
Hazard for aquatic organisms	Sediment (freshwater)	No exposure of sediment expected
Hazard for aquatic organisms	Sediment (marine water)	No exposure of sediment expected
Hazard for terrestrial organisms	Soil	PNEC=0.81 mg/kg soil dw
Hazard for predators	Secondary poisoning	No potential to cause toxic effects if accumulated (in higher organisms) via the food chain

8.2 Exposure control

Respirators- Wear suitable respiratory protective equipment if exposure to high levels of material are likely. A suitable mask with filter type A (EN141 or EN405) is appropriate.

Eye protection- Safety spectacles/goggles/full face shield Minimum standard EN166.



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Gloves- Plastic or rubber gloves. (EN374-3 Level 2 protection)

Other- PVC apron or other light protective clothing and boots. Provide adequate ventilation, including appropriate local extraction.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

1. Form- Liquid
2. Colour- Clear
3. Odour- Faint.
4. pH (Value)- 6.7 (100 g/l at 20 degC) (1)
5. Melting Point (°C)- -54 degC (1)
6. Boiling Point (°C)- 243 degC (1)
7. Flash Point (°C)- 123 degC (2)
8. Flammable Limits (% v/v)- 1.8 – 14.3 % (2)
9. Explosive Properties- Not explosive.
10. Oxidising Properties- Not oxidising.
11. Vapour Pressure (20 degC)- 0.01 hPa (1)
12. Density (g/ml)- 1.204 at 20 degC (2)
13. Solubility (Water)- Soluble
14. Partition Coefficient- Log Pow = -0.48 at 25 degC (3)
15. Viscosity (mPa.s)- 2.8 at 20 degC (2)
16. Vapour Density (Air=1)- Not applicable
17. Relative Evaporation Rate- Not applicable
(Butyl Acetate = 1)

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability- Stable under normal conditions.

Hazardous Decomposition Product(s) - Carbon monoxide, Carbon dioxide under fire conditions

Incompatible materials: Strong oxidizing agents. Acids. Alkalis



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SECTION 11: TOXICOLOGICAL

Acute Toxicity LD50 = 32 000 mg/kg (Oral – Rat) (4)

Skin Contact Non-irritant (Rabbit) (4)

Eyes Irritant. (Rabbit) (5)

Respiratory system No information available

Sensitization It is not a skin sensitizer. (6)

Ingestion No information available

Repeated dose toxicity (21 Days) Inhalation study 2.8 mg/l (Rat, Dog, Guinea Pig); None or little adverse effect (6)

Carcinogenicity IARC (7), NTP (8), OSHA (9), ACGIH (10) do not list this product as a known or suspected carcinogen.

Reproductive toxicity No evidence of genotoxicity or toxicity for reproduction. (5)(6)

SECTION 12: ECOLOGICAL INFORMATION

Acute Toxicity

1. **(Fish) (96 hrs)** LC50 > 1000 mg/l (Leuciscus idus) (11)
2. **(Daphnia magna) (48 hrs)** LC50 > 1000 mg/l (12)
3. **Algae (72 hrs)** EC50 > 500 mg/l (13)
4. **Bio-accumulation** The substance has no potential for bioaccumulation.
5. **Biodegradability** Readily biodegradable.
6. **Effect on Effluent Treatment** Unlikely to have an effect on effluent treatment systems.

SECTION 13: DIOSPOSAL AND TREATMENT CONSIDERATIONS

Regulatory information

This material and its container must be disposed of as hazardous waste. Incinerate under approved controlled conditions, using incinerators suitable for the disposal of noxious chemical waste. Consult an accredited waste disposal contractor or the local authority for advice regarding final disposal.



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SECTION 14: TRANSPORT INFORMATION

	Land transport (ADR/RID)	Inland waterways (ADN)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN number	Not regulated	Not regulated	Not regulated	Not regulated
UN Proper shipping name	Not regulated	Not regulated	Not regulated	Not regulated
Transport hazard Class(es)	Not regulated	Not regulated	Not regulated	Not regulated
Packing group	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards	No	No	No	No
Special precautions for user	See section 2.2	See section 2.2	See section 2.2	See section 2.2
Transport in bulk according to Annex II of Marpol and the IBC Code	Not regulated	Not regulated	Not regulated	Not regulated

SECTION 15: REGULATORY INFORMATION

EC INDEX No. 607-194-00-1

Classification (**Directive 67/548/EEC**)

Hazard Symbols Xi

Risk Phrases R36: Irritation to eyes

Safety Phrases S2: Keeping children far away


Classification (**Regulation (EC) 1272/2008**)

Signal word- Warning

Warning Phrases- H319: Causes serious eye irritation

Precautionary statement(s)- P102: Keep out of reach of children.

P305 + P351: IF IN EYES: Rinse cautiously with water for several minutes.

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Continue rinsing.
INTERNATIONAL INVENTORIES
EINECS No. 203-572-1

SECTION 16: ADDITIONAL INFORMATION

This Safety Data Sheet was prepared in accordance with Directive 2001/58/EC and EC Regulation (EC) No. 1907/2006 as amended by Regulation 453/2010.

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