

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

1.1. Product identifier

Trade name: Propylene Carbonate

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

No further relevant information available.
Application of the substance / the mixture Solvent
Lubricant
Cosmetic cleaning agent Coatings
Process Chemical
Uses advised against Food contact, additive.

1.3. Details of the supplier of the safety data sheet

Use of substance / mixture: PC1: Adhesives, sealants.

Company name: Cyanotec Ltd
Bay 2 Building 62
Third Avenue
Pensnett Trading Estate
Kingswinford
DY6 7XT
Tel: 01384 294753
Email: tim@cyanotec.com

1.4. Emergency telephone number

Tel: 01384 294753 (Not 24 hours times below)
Mon – Thurs 8:40 to 16:55 Friday 8:40 to 14:25

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008



GHS07

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

Irritating to eyes.

Information concerning particular hazards for human and environment: Not applicable.

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2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS07

Signal word *Warning*

Hazard statements

. H319 Causes serious eye irritation.

Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P264 Wash 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 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Section 3: Composition/information on ingredients

3.1. Chemical characterisation: Substances

CAS No. Description

108-32-7 propylene carbonate

Identification number(s)

EC number: 203-572-1

Index number: 607-194-00-1

SVHC Not listed as a SVHC at the date of this document

Section 4: First aid measures

4.1. Description of first aid measures

General information:

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Do not leave affected persons unattended. Seek immediate medical advice.

After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

After skin contact:

Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing.

Dispose of contaminated clothing as hazardous waste. Observe precautions.

Repeated skin contact may result in irritation and dermatitis. Always wear protective gloves suitable for this product.

After eye contact:

Rinse opened eye for at least 15 minutes under clean running water. Remove contact lenses if possible. Seek immediate medical advice.

Continue to irrigate the eye with clean water. Seek immediate medical advice.

After swallowing:

Do NOT induce vomiting; rinse mouth with water, call for medical help immediately. Rinse out mouth and then drink plenty of water if patient is fully conscious.

4.2. Most important symptoms and effects, both acute and delayed.

No further relevant information available

4.3. Indication of any immediate medical attention and special treatment needed

No further relevant information available.

Section 5: Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing agents:

Use fire extinguishing methods suitable to surrounding conditions.

CO₂, powder or water spray. Fight larger fires with aqueous film forming foam (AFFF). Cool containers with water spray.

For safety reasons unsuitable extinguishing agents: Water with full jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide (CO), if incomplete combustion.

5.3. Advice for firefighters

Protective equipment: Respiratory protective device.

Additional information

Collect contaminated firefighting water separately. It must not enter the sewage system.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: Keep people at a distance and stay on the windward side.

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Wear protective clothing.

6.2. Environmental precautions

Environmental precautions: In case of seepage into the ground inform responsible authorities. Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning up

Clean - up procedures: Send for recovery or disposal in suitable receptacles - may need to be UN approved.

6.4. Methods and material for containment and cleaning up

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Section 7: Handling and storage

7.1. Precautions for safe handling

Handling requirements: Take note of emission threshold. Use only in well ventilated areas. Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

Information about fire - and explosion protection: No special measures required.

7.2. Conditions for safe storage, including any incompatibilities

Storage: Requirements to be met by storerooms and receptacles: Provide solvent resistant, sealed floor.

Prevent any seepage into the ground.

Use only receptacles specifically permitted for this substance/product. Unsuitable material for receptacle: aluminium.

7.3. Specific end use(s)

Information about storage in one common storage facility: Not required.

Further information about storage conditions: Keep container tightly sealed.

No further relevant information available.

Section 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with limit values that require monitoring at the workplace: Not required.

Additional information: The lists valid during the making were used as basis.

8.2. Exposure controls

Personal protective equipment: General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Avoid alcohol consumption while working with the product.

Respiratory protection:

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Use suitable respiratory protective device in case of insufficient ventilation - when exposure levels are likely to be exceeded.

Protection of hands:

Solvent resistant gloves. Use gloves approved to BS EN 374 : Protective Gloves against Chemicals. Chemical Resistant Gloves, class 4 or higher for prolonged exposure.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Durability and suitability of glove material is usage dependent. We recommend advice from an experienced glove supplier.

Always wear gloves with clean hands. Contaminated gloves should always be replaced.

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. Ideally a breakthrough time of >480 minutes is recommended, but >240 minutes should be viewed as minimum for continuous contact.

Eye protection:



Tightly sealed goggles or equivalent eyewear. Approved to EN166 Standard.

Body protection: Protective work clothing, ideally with anti-static properties - especially if a DSEAR risk assessment warrants this type of clothing.

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Section 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

· General Information

Appearance:

Form: Liquid

Colour: Colourless (Aged product may darken depending upon storage conditions and time period)

· Odour: Mild

· Odour threshold: Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point: -54 °C

Initial boiling point and boiling range: 242 °C

· Flash point: 135 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 430 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Not determined.

· Explosive properties: Product does not present an explosion hazard.

· Explosion limits:

Lower: 1.9 Vol %

Upper: Not determined.

· Vapour pressure at 20 °C: 0.04 hPa

· Density at 20 °C: 1.205 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with: Not determined.

water:

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity: Not determined.

Dynamic:

Kinematic: Not determined.

· 9.2 Other information: No further relevant information available.

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Section 10: Stability and reactivity

10.1. Reactivity

No further relevant information available.

Thermal decomposition / conditions to be avoided:

10.2. Chemical stability

No decomposition if used according to specifications and industry good practice.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

Acids, strong oxidising agents, strong alkalis.

10.6. Hazardous decomposition products

Carbon monoxide if incomplete combustion at high temperatures may decompose to proylene oxide and CO₂ causing higher pressure if not properly vented.

Section 11: Stability and reactivity

11.1. Information on toxicological effects

Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:		
Oral	LD50	29000 mg/kg (rat)

Primary irritant effect:

Skin corrosion/irritation

Prolonged contact with any solvent can result in skin irritation, not classed as an irritant. Always wear suitable gloves when handling.

Serious eye

damage/irritation Causes

serious eye irritation.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

Section 12: Ecological information

12.1. Toxicity

Aquatic toxicity: No further relevant information available.

12.2. Persistence and degradability

Ecotoxicity values: No data available.

Persistence and degradability: Biodegradable.

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12.3. Bioaccumulative potential

No further relevant information available.

12.4. Mobility in soil

No further relevant information available.

Additional ecological information:

General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5. Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

No further relevant information available.

12.6. Other adverse effects

- Recommendation

Section 13: Disposal considerations

13.1. Waste treatment methods

Must not be disposed together with household refuse. Do not allow product to reach sewage system. Refer to the revised Waste Framework Directive (2008/98 EC) and the European Waste Catalogue (EWC). Substance is "hazardous" if it is classified as waste according to annex III of rWFD, subject to thresholds. Refer to "WM3: Hazardous Waste: Interpretation of the definition and classification of hazardous waste", located on Environment Agency website.

- European waste catalogue

Refer to WM3 Hazardous Waste: Interpretation of the definition and classification of hazardous waste.

- Uncleaned packaging:
- Recommendation:

Waste Solvent Disposal must be made according to official regulations. Refer to Hazardous Waste Regulations 2005. Requires movement under Consignment note by licensed waste carrier. We may be able provide this service - please contact us for more details.

Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning. Please contact us if you wish to return your used packaging (205litre and IBC's only).

Containers to be scrapped as waste must be cleaned so that no hazardous substances remain, otherwise uncleaned containers containing residue for scrap will need to be consigned as hazardous waste as per WM3.

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Section 14: Transport Information

14.1 UN-Number

ADR, ADN, IMDG, IATA

Void

ADR, ADN, IMDG, IATA

Void

14.3 Transport hazard class(es)

14.2 UN proper shipping name

ADR, ADN, IMDG, IATA
Class

Void

14.4 Packing group

ADR, IMDG, IATA

Void

14.5 Environmental hazards:

Marine pollutant:

No

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of

Marpol and the IBC Code

Not applicable.

UN "Model Regulation":

Void

Section 15: Regulatory Information

15.1 Special precautions for user

Safety, health and environmental regulations/legislation specific for the substance or mixture

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

15.2 Chemical safety assessment:

has not been carried out.

Section 16: Other Information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

The information contained in this SDS does not constitute a risk assessment and should not replace the user's own assessment of risks as required by other health and safety legislation.

- Relevant phrases None
- Training hints

Make users aware of the contents of this document and train according to use and risks within your operation.

- Department issuing SDS: Product safety department.
- Contact: Sales Office in the first instance.
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2