

ALEC TIRANTI LIMITED

TOOLS, MATERIALS & EQUIPMENT FOR MODELLING, CARVING, SCULPTURE

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Material Safety Data Sheet

Product

1. Identification of the Substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name: Propylene Carbonate

CAS Number:

108-32-7

EC number:

203-572-1

Index number:

607-194-00-1

Registration number 01-2119537232-48-xxxx

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

Uses advised against Food contact, additive.

1.3 Details of the supplier of the safety data sheet

Supplier:

Cyanotec Ltd

Bay 2 building 62 third ave

Kingswinford

West Midlands

DY6 7XT

Tel.: 0845 618 3120 9 to 5 Monday to Friday

Fax.: 0845 618 3121

Emal: sales@cyanotec.com

Further information obtainable from: Contact us at the above office.

1.4 Emergency telephone number: Contact us as above (Not 24 hours)

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.

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

P264

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

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.

If eye irritation persists: Get medical advice/attention.

2.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. Composition/information on Ingredients

3.1 Chemical characterization: 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

4. First Aid Measures

4.1 Description of first aid measures

General information:

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.

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.

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 fire fighting water separately. It must not enter the sewage system.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

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

Wear protective clothing.

6.2 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:

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

6.4 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.

7. Handling and Storage

7.1 Precautions for safe handling

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.

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

Further information about storage conditions: Keep container tightly sealed.

7.3 Specific end use(s) No further relevant information available.

8. Exposure Controls/Personal Protection

Additional information about design of technical facilities: No further data; see item 7.

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:

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

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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Tightly sealed goggles. EN166 Standard

Body protection: Protective work clothing

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/Melting range: -54 °C

Boiling point/Boiling range: 242 °C

Flash point: 135 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 430 °C

· Decomposition temperature: Not determined.

· Self-igniting: Not determined.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:

Upper:

1.9 Vol %

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

water:

Not determined.

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

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· 9.2 Other information No further relevant information available

10. Stability and Reactivity

10.1 Reactivity

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:

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.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity:

LD/LC50 values relevant for classification:

Oral LD50 29000 mg/kg (rat)

Primary irritant effect:

on the skin: Prolonged contact with any solvent may result in mild skin irritation. Wear gloves when handling.

on the eye: Irritating effect.

(Contd. on page 6)

Sensitization: No sensitizing effects known.

12. Ecological Information

12.1 Toxicity

Aquatic toxicity: No further relevant information available.

12.2 Persistence and degradability No further relevant information available.

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) (Self-assessment): 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.

12.6 Other adverse effects No further relevant information available.

13. Disposal Considerations

13.1 Waste treatment methods

Recommendation

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 "WM2: Hazardous Waste: Interpretation of the definition and classification of hazardous waste", located

on Environment Agency website.

European waste catalogue

Refer to WM2 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 can 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 srाप will need to be consigned as hazardous waste as per

WM2

version 3 2014.

14. Transport Information

14.1 UN-Number

ADR, IMDG, IATA

14.2 UN proper shipping name

ADR, IMDG, IATA

14.3 Transport hazard class(es)

· ADR, 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 MARPOL73/78 and the IBC Code Not applicable.

15. Regulatory Information

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out

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.

Relevant phrases

The 'R' phrase listed below are for reference only and do not form the R phrases for the labelling or classification

of the product. Refer to section 3 for this information.

Training hints

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

Department issuing MSDS: 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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized 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