

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006, as amended by Commission Regulation (EU) 2020/878

**Dencryl CP**

Revision Date: 10.07.2025

Version 1.0

Print Date 10.07.2025

Date of last issue: -

**1. Identification of the Substance/Preparation and of the Company/Undertaking****Dencryl CP****Recommended use(s):**

Auxiliary agent for road markings and floor coatings

Company name of supplier : Dencoat International ApS  
E-mail: info@dencoat.com  
Website: www.dencoat.com

Telephone : +45 88 44 22 27  
E-mail address of person  
responsible for the SDS : technical@dencoat.com

In case of emergency call +45 88 44 22 27

**2. Composition/Information on Ingredients**

Monomer mixture on the basis of methacrylic acid esters

**Hazardous Ingredients**

Component	CAS No.	Hazard symbol(s) / R-phrase(s)	Content
methacryloyloxyethyl phosphate	52628-03-2	C 34	60,0 - 100,0 %
methyl methacrylate	80-62-6	F, Xi 11-37/38-43	15,0 - 40,0 %

**3. Hazards Identification**

Highly flammable.  
Causes burns.  
May cause sensitisation by skin contact.

**4. First Aid Measures****General information**

Remove soiled, soaked clothing immediately. Medical treatment is necessary if symptoms occur which are obviously caused by skin or eye contact with the product or by inhalation of its vapours.

**After inhalation**

Ensure supply of fresh air. Call a physician immediately.

**After contact with eyes**

Keeping the eyelids apart flush thoroughly with water immediately. Protect uninjured eye. Call a physician immediately. Call ambulance (cue: caustic burn of the eyes). Continue rinsing eye until arrival at ophthalmic hospital.

**After contact with skin**

Wash off immediately with soap and water. See a physician.

**After Ingestion**

Do not induce vomiting. Call a physician immediately. Rinse out mouth and give plenty of water to drink.

**5. Fire-fighting Measures****Suitable extinguishing media**

foam, dry chemical, carbon dioxide

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**Unsuitable extinguishing media for safety reasons**

water

**Special protective equipment for fire fighting**Wear self-contained breathing apparatus.

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**6. Accidental Release Measures****Precautionary measures related to people**

Take care for adequate ventilation. Use personal protective clothing. Keep away sources of ignition. Use breathing apparatus if exposed to vapours/dust/mist/aerosol.

**Environmental protective measures**

Prevent product from getting into drains/surface water/groundwater.

**Methods of cleaning / adsorption**

Larger quantities: Remove mechanically (by pumping). Use explosion-proof equipment! Smaller quantities and/or residues: Contain with absorbent material (e.g. sand, diatomaceous earth, acid absorbent, universal absorbent or sawdust). Dispose of in accordance with regulations.

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**7. Handling and Storage****Handling****Instructions on safe handling**

Keep container tightly closed. Ensure the area is well ventilated.

**Information on fire and explosion protection**

Keep away from sources of ignition --- No smoking. Take precautionary measures against static discharges. In the event of fire, cool the endangered containers with water. When heated above the flash point and/or during spraying (atomizing), ignitable mixtures may form in air. Use explosion-proof equipment only.

**Storage****Requirements for storage areas and containers**

Keep only in the original container at a temperature not exceeding 30 °C. Fill the container by approximately 80 % only as oxygen (air) is required for stabilisation. With large storage containers make sure the oxygen (air) supply is sufficient to ensure stability. Protect from light.

**Advice on storage compatibility**Do not store together with strong oxidizing agents.

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**8. Exposure Controls/Personal Protection****Personal protective equipment****General protective measures**

Do not inhale vapours. Avoid contact with eyes and skin.

**Hygiene measures**

Remove soiled or soaked clothing immediately. Store work clothing separately. Follow the usual good standards of occupational hygiene. Clean skin thoroughly after work; apply skin cream.

**Respiratory protection**

Breathing apparatus in case of high concentrations, short term: filter appliance, filter A

**Hand protection**

butyl rubber gloves ( 0,7 mm ), Breakthrough time 300 min ( EN 374 )

In practice, due to variable exposure conditions, this information can only be an aid to orientation for the selection of a suitable chemical protection glove. In particular, this information does not substitute suitability tests by the end user.

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**General information**

Gloves should be replaced regularly, especially after extended contact with the product. For each work-place a suitable glove type has to be selected.

**Eye protection**

tightly fitting goggles

**Body protection**

on handling of larger quantities: face mask, chemical-resistant boots and apron

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**9. Physical and Chemical Properties****Appearance**

Form :	liquid
Colour :	yellowish to brownish
Odour :	characteristic

**Data relevant to safety****Changes in physical state**

Melting temperature	< 0 °C
Boiling Temperature	approx. 100 °C at 1.013 hPa
<b>Flash point</b>	10 °C ( DIN 51755 ) (methyl methacrylate)
<b>Ignition temperature</b>	430 °C ( DIN 51794 ) (methyl methacrylate)
<b>Spontaneous ignition</b>	not determined
<b>Lower explosion limit</b>	2,1 %(V) (methyl methacrylate)
<b>Upper explosion limit</b>	12,5 %(V) (methyl methacrylate)
<b>Vapour pressure</b>	approx. 40 hPa at 20 °C
<b>Density</b>	1,21 g/cm <sup>3</sup> at 20 °C
<b>Relative vapour density (related to air)</b>	> 1 at 20 °C
<b>Solubility in water</b>	approx. 40 g/l at 20 °C
<b>pH-value</b>	not applicable
<b>Viscosity (dynamic)</b>	40 - 55 mPa.s at 23 °C ( Brookfield )
<b>Further information</b>	none

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**10. Stability and Reactivity****Thermal decomposition**

No decomposition when used as directed.

**Hazardous reactions**

Polymerization with heat evolution may occur in the presence of radical forming substances (e.g. peroxides), reducing substances, and/or heavy metal ions.

**Hazardous decomposition products**

None when used as directed.

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**11. Toxicological Information**

**Acute Oral Toxicity**

Low toxicity if swallowed

LD50 rat, OECD 401

> 2.000 mg/kg

Related to substance: methacryloyloxyethyl phosphate

LD50 rat, OECD 401

> 5.000 mg/kg

Related to substance: methyl methacrylate

**Acute Inhalational Toxicity**

Low toxicity by inhalation

LC50 rat, 4 h

29,8 mg/l

Related to substance: methyl methacrylate

**Irritant Effect on the Skin**

rabbit, 4 h, OECD 404, GLP

corrosive

Related to substance: methacryloyloxyethyl phosphate

**Irritant Effect on the Eyes**

(analogy)

highly irritating - corrosive

Related to substance: methacryloyloxyethyl phosphate

**Sensitisation**

Sensitisation on skin contact cannot be excluded.

Related to substance: methacryloyloxyethyl phosphate

In sensitisation tests on guinea pigs with and without adjuvant, both positive and negative results were found. In humans various types of allergic reactions have been observed (symptoms: headache, eye irritations, skin affections).

Related to substance: methyl methacrylate

**Toxicity on Repeated Administration**

Dose ad which no adverse effects were observed (NOAEL). At higher doses adverse effects were observed.

rat, inhalation, 2 a, 0, 25, 100, 400 ppm

**NOAEL 25 ppm**

Findings: Damage to mucous membranes in the nose at 400 ppm

Related to substance: methyl methacrylate

rat, in drinking water, 2 a, 0, 6/7, 60/70, 2000 ppm

**NOAEL 2000 ppm**

Findings: no toxic effects

Related to substance: methyl methacrylate

**Mutagenicity**

not mutagenic in bacteria in vitro

Related to substance: methacryloyloxyethyl phosphate

Positive as well as negative results in in vitro mutagenicity/ genotoxicity tests.

No experimental indication of genotoxicity in vivo available.

In summary not mutagenic according to internationally accepted criteria.

Related to substance: methyl methacrylate

**Carcinogenicity**

Non-carcinogenic in inhalation and feeding studies carried out on rats, mice and dogs.

Related to substance: methyl methacrylate

**Reprotoxicity / teratogenicity**

No indications of toxic effects were observed in reproduction studies in animals.

Related to substance: methyl methacrylate

**General information**

There are no toxicological data available for the product as such. Carefully avoid contact with skin and eyes as well as inhalation of product vapours.

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**12. Ecological Information****Information on elimination (persistence and degradability)****Biodegradability**

readily degradable

Related to substance: product

**Ecotoxicological effect****Fish toxicity**LC50 *Poecilia reticulata*, OECD 203, 96 h

&gt; 100 mg/l

Related to substance: product

**Daphnia toxicity**EC50 *Daphnia magna*, OECD 202, 48 h

&gt; 100 mg/l

Related to substance: product

**Algae toxicity**EC3 *Scenedesmus quadricauda*, DIN 38412 section 9, 8 d

37 mg/l

Related to substance: methyl methacrylate

**Bacteria toxicity**EC0 *Pseudomonas putida*

100 mg/l

Related to substance: methyl methacrylate

**General information**Do not allow to enter soil, waterways or waste water

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**13. Disposal considerations****Product**

Waste is hazardous and therefore particularly to be kept under surveillance. It must be disposed of in accordance with the regulations after consultation of the competent local authorities and the disposal company in a suitable and licensed facility.

**Uncleaned packaging**

Contaminated packaging should be emptied optimally and after appropriate professional cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of professionally.

Uncontaminated packaging may be taken for recycling.

**Code of waste EWC**

07 02 08

waste from the manufacture, formulation, supply and use (MFSU) of plastics, synthetic rubber and man-made fibres - other still bottoms and reaction residues

Always check the given waste codes according to the actual conditions of manufacturing, formulation or use in your facilities.

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**14. Transport Information****Overland transport ADR/RID/GGVSE**

UN 2924 flammable liquid substance, corrosive, n.o.s. (containing methyl methacrylate / phosphoric acid esters), 3, II

**Inland waterway transport ADNR**

UN 2924 flammable liquid substance, corrosive, n.o.s. (containing methyl methacrylate / phosphoric acid esters), 3, II

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**Shipment by sea IMDG/GGVSee**

Class 3	EmS F-E, S-C	UN number 2924
Marine pollutant	Packed (+/0): 0	
Packaging group	II	
Proper Shipping Name	Flammable liquid, corrosive, n.o.s.**)	
Hazardous constituent: methyl methacrylate, phosphoric acid ester		

**Air transport ICAO/IATA**

Class 3		UN number 2924
Packaging group	II	
Proper Shipping Name	Flammable liquid, corrosive, n.o.s.**)	

**DOT**

Flammable liquid, corrosive, n.o.s. (containing methyl methacrylate, phosphoric acid ester)	UN number 2924
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**Further information**

\*) (containing methyl methacrylate / phosphoric acid esters) \*\*) (containing methyl methacrylate / phosphoric acid esters)

**15. Regulatory Information**

**Labelling in accordance with directive 1999/45/EC**

requires labelling

**Hazardous component(s) for labelling**

contains	methacryloyloxyethyl phosphate methyl methacrylate
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**Hazard symbol(s)**

F	Highly flammable
C	Corrosive

**R-phrase(s)**

11	Highly flammable.
34	Causes burns.
43	May cause sensitisation by skin contact.

**S-phrase(s)**

24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

**Status of Registration**

EINECS/ELINCS : listed

**Occupational restrictions**

Note for juveniles.  
 Note for pregnant woman and nursing mothers (EC Directive

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**16. Other Information****Miscellaneous information**

The product is normally supplied in a stabilized form. If the permissible storage period and/or storage temperature is exceeded, the product may polymerize with heat evolution.

**R-phrases of relevance from Section 2**

- 11 Highly flammable.
- 34 Causes burns.
- 37/38 Irritating to respiratory system and skin.
- 43 May cause sensitisation by skin contact.

**References**

- relevant manuals and publications
- own examinations
- own toxicological and ecotoxicological studies
- toxicological and ecotoxicological studies of other manufacturers
- SIAR
- OECD-SIDS
- RTK public files

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Places marked by || have been amended from the last version.

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