

**87100 Cyclododecane**

Edition: 20.08.2003

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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY**

Product Information:

Product Name: Cyclododecane  
Article No.: 87100  
Application: Artists' and Restauration Material

Company: Kremer Pigmente GmbH & Co. KG  
Hauptstrasse 41-47, D - 88317 Aichstetten  
Tel. +49 7565 91120 Fax. +49 7565 1606  
www.kremer-pigmente.de, kremer-pigmente@t-online.de

**2. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical characterization: Cyclododecane

CAS No.: 294-62-2  
EINECS No.: 206-033-9

**3. HAZARDS IDENTIFICATION**

Hazards unknown.

**4. FIRST AID MEASURES**

General information: Remove contaminated clothing.  
After skin contact: Wash immediately with soap and rinse with plenty of water. Skin burns caused by melted material have to be medically treated.  
After eye contact: Contact physician immediately.

**5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Water spray, foam, CO<sub>2</sub>, extinguishing powder.

**6. ACCIDENTAL RELEASE MEASURES**

Measures for environmental protection: Keep away from sewerage system, waterways and earth.  
Methods of cleaning/absorption: Collect mechanically. Store in labelled and tightly closed containers.

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**7. HANDLING AND STORAGE**

*Handling:*

Instructions on safe handling: Follow the usual measures when handling chemicals.

Information on fire and explosion protection: No special measures necessary.

*Storage:* No special measures necessary.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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

Components with critical values that require monitoring at the workplace: Not required.

Personal protective equipment:

Hygiene measures: Avoid contact with eyes and skin. Remove contaminated clothing. Do not eat, drink or smoke while working.

Eye protection: Safety glasses.

Hand protection: Protective gloves (NBR)

- Material strength: 0.35 mm

- Permeation time: > 480 min

- Method: Source: GloSaDa (Glove Safety Database)

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Form: solidified melt

Color: colorless

Odor: distinct

Data relevant to safety:

Melting point: 61°C

Boiling point: 243°C (1.013 hPa)

Flash point: 114°C ISO 2592

Ignition temperature: 225°C DIN 51794

Explosion limits: 0.5 - 6.9 Vol %

Vapor pressure: (20°C) 0.073 hPa

Density: (65°C) 0.830 g/cm<sup>3</sup>

Solubility in water: (20°C) 0.01 g/l

pH value: (20°C) not applicable

Partition coefficient (log Pow): 6.71 (calculated)

Viscosity: (65°C) 2.2 mPa·s

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**10. STABILITY AND REACTIVITY**

Thermal decomposition: 200 - 250°C  
Hazardous decomposition products: none  
Hazardous reactions: none

**11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity: LD50 > 10000 mg/kg Species: rat  
Irritant effect on skin: slightly irritating OECD TG 404  
Irritant effect on eye: non-irritating OECD-Test 405  
Sensitization: not sensitizing Magnusson-Kligman-Test

**12. ECOLOGICAL INFORMATION**

Persistency and Degradability:  
Biological degradability: 0 % not readily degradable (Mod. Sturm-Test)

Ecotoxicological effects:  
- Fish toxicity: LC0 (Cyprinus carpio): > 1 mg/l, 96h; 84/449/EC C.1\*  
- Daphnia toxicity: EC 50 (Daphnia pulex): 21 mg/l, 48h; 84/449/EC, C.2\*  
- Algae toxicity: EC 50 (Scenedesmus subspicatus): > 2.1 mg/l, 72h; EC 87/302/EC, Part C, p. 89\*  
NOEC (Scenedesmus subspicatus): ≥ 2.1 mg/l, 72h; EC 87/302/EC, Part C, p. 89\*

\*) Non toxic according to test conditions within water solubility.

**13. DISPOSAL CONSIDERATIONS**

In accordance with current regulations, product may be taken to waste disposal site or incineration plant, after consultation with site operator and/or with the responsible authority.

**14. TRANSPORT INFORMATION**

Not hazardous according to the transport specifications.

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**15. REGULATORY INFORMATION**

Labelling in accordance with EC guidelines: The product is not subject to classification according to EC guideline 67/548/EC.

National Regulations (D):

Water hazard class: 0, not hazardous

**16. OTHER INFORMATION**

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should therefore not be construed as guaranteeing specific properties.