

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 87100 Cyclododecane

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Revised edition: 01.01.2020

Version: 3

Printed: 12.02.2020

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

*Product Name:* Cyclododecane

*Article No.:* 87100

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

*Identified uses:*

*Not available.*

*Uses advised against:*

*none*

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

*Company:* Kremer Pigmente GmbH & Co. KG

*Address:* Hauptstr. 41-47, 88317 Aichstetten, Germany

*Tel./Fax.:* Tel +49 7565 914480, Fax +49 7565 1606

*Internet:* www.kremer-pigmente.com

*E-Mail:* info@kremer-pigmente.com

*Importer:*

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#### 1.4. Emergency No.

*Emergency No.:* +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

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### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*This product does not require classification and labelling as hazardous according to CLP/GHS.*

*Possible Environmental Effects:*

#### 2.2. Label Elements

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

*Hazard designation:*

*Not applicable.*

*Signal word:*

*Hazard designation:*

*Safety designation:*

*Hazardous components for labelling:*

#### 2.3. Other Hazards

*Exposure to powder or dust can cause irritation of eyes, nose and respiratory tract.*

*High dust concentrations can form explosive mixtures with air.*

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### Composition/Information on Ingredients

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### 3.

#### 3.1. Substance

#### 3.2. Mixture

*Chemical Characterization:* Cyclododecane, CAS No. 294-62-2, EINECS 206-033-9: 100 %.  
REACH Reg. No. 01-2119490407-33-0000

*Information on Components / Hazardous Ingredients:*

*Additional information:*

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### 4. First Aid Measures

#### 4.1. Description of the First Aid Measures

*General information:*

*Seek medical attention in case of complaints.*

*After inhalation:*

*Supply fresh air. Consult physician if symptoms persist.  
Oxygen therapy in case of impaired breathing.*

*After skin contact:*

*Wash with soap and rinse with plenty of water.  
If symptoms persist, consult a physician.*

*After eye contact:*

*Remove contact lens. Rinse open eyes with plenty of water (10-15 min). Should irritation continue, seek medical advice.*

*After ingestion:*

*Rinse mouth with water and drink plenty of water.  
If symptoms persist consult physician.  
Never give anything by mouth to an unconscious person.  
If vomiting occurs spontaneously, keep head below hips to prevent aspiration.*

#### 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Inhalation: coughing, shortness of breath. Irritating to respiratory system.*

*Can cause skin and eye irritation by sensitive persons.*

*Skin contact: redness, dryness, itching and burning.*

*Eye contact: redness, dryness, itching and burning.*

*Swallowing: may cause nausea, vomiting and diarrhea.*

*Effects:*

*No further information available.*

#### 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*No further information available.*

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### 5. Fire-Fighting Measures

#### 5.1. Extinguishing Media

*Suitable extinguishing media:*

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*Foam, carbon dioxide (CO<sub>2</sub>), extinguishing powder, water spray.*

*Unsuitable extinguishing media:*

*Water with full jet.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Dust can form explosive mixtures with air.*

*When heated an explosive mixture with air can be formed.*

*In case of fire: formation of CO, CO<sub>2</sub> and fumes.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and protective clothing.*

*Further information:*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

*Contaminated extinguishing water and debris should be disposed of according to local regulations.*

*Cool exposed containers with water mist.*

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## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Inform the local authorities if large amounts are spilled.*

*Keep away from sources of ignition. No smoking.*

*Ensure adequate ventilation.*

*Avoid formation of dust, wear protective clothing.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

### 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.*

### 6.4. Reference to other Sections

*Protective clothing, see Section 8.*

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## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Provide adequate ventilation.*

*Avoid contact with eyes, skin and clothing.*

*Wear adequate protective clothing (see para. 8).*

*Clean surfaces regularly to ensure that no dust accumulates on the surfaces.*

*Hygienic measures:*

*Keep away from foodstuffs and drinks.*

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*Do not inhale dust. Wash hands before breaks and at the end of work.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.*

*Requirements for storage areas and containers:*

*No special measures necessary.*

*Information on fire and explosion protection:*

*Do not store together with: oxidants.*

*Dust may form an explosive mixture with air.*

*Keep away from sources of ignition - do not smoke. Take measures to prevent electrostatic discharge.*

*Ensure electrical continuity by bonding and grounding (earthing) all equipment.*

*Ground and bond containers when transferring material.*

*Storage class:*

*Further Information:*

*Avoid accumulation of dust.*

### 7.3. Specific End Use(s)

*Further information:*

*Chemical intermediate.*

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## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*none known*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*No values available.*

*Predicted No-Effect Concentration (PNEC):*

*No values available.*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*All particle monitoring systems, resp. local exhaust systems have to have explosion discharge openings or an explosion autonomous protective system, resp. a low-oxygen environment.*

*Personal Protection*

*General protective measures:*

*The usual precautionary measures are to be adhered to when*

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*handling chemicals.*

*Do not inhale dust. Do not eat, drink or smoke while working.  
Wash hands before breaks and at the end of work.*

*Respiratory protection:*

*Required in case of insufficient ventilation (EN 143 or 149).*

*Hand protection:*

*Protective gloves (EN 374)*

*Protective glove material:*

*Butyl rubber (480 min; 0.5 mm).*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Protective clothing, chemical resistant.*

*Environmental precautions:*

*Avoid spilling and release of product. Follow the national emission regulations.*

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## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

<i>Form:</i>	<i>solid</i>
<i>Color:</i>	<i>white</i>
<i>Odor:</i>	<i>characteristic</i>
<i>Odor threshold:</i>	<i>No information available.</i>
<i>pH-Value:</i>	<i>not applicable</i>
<i>Melting temperature:</i>	<i>60.7°C (141.26°F)</i>
<i>Boiling temperature:</i>	<i>247°C (476.6°F)</i>
<i>Flash point:</i>	<i>&gt; 93°C (&gt; 199°F)</i>
<i>Evaporation rate:</i>	<i>not applicable</i>
<i>Flammability (solid, gas):</i>	<i>not available</i>
<i>Upper explosion limit:</i>	<i>7.5 Vol%</i>
<i>Lower explosion limit:</i>	<i>0.7 Vol%</i>
<i>Vapor pressure:</i>	<i>0.028 mm Hg (50°C)</i>
<i>Vapor density:</i>	<i>No information available.</i>
<i>Density:</i>	<i>0.82 g/cm<sup>3</sup></i>
<i>Solubility in water:</i>	<i>0.01 g/l (20°C)</i>

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*Coefficient of variation (n-Octanol/Water):* 4.2 logPow (23°C)

*Auto-ignition temperature:* 355°C (671°F)

*Decomposition temperature:*  
No data available.

*Viscosity, dynamic:*  
not available

*Explosive properties:*  
not applicable

*Oxidizing properties:*  
no information available

*Bulk density:* 0.82

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*  
No further information.

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## 10. Stability and Reactivity

10.1. **Reactivity**  
Stable if used according to specifications.

10.2. **Chemical Stability**  
Stable if used according to specifications.

10.3. **Possibility of Hazardous Reactions**  
Formation of peroxide is possible.

10.4. **Conditions to Avoid**  
*Conditions to avoid:*  
Avoid heat, open fire and other ignition sources.

*Thermal decomposition:*  
No data available.

10.5. **Incompatible Materials**  
Strong oxidizing agents.

10.6. **Hazardous Decomposition Products**  
In case of fire: formation of carbon oxides and other toxic gases and vapors.  
Polynuclear aromatic hydrocarbons (PAHs).

### 10.7. Further Information

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### 11. Toxicological Information

#### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral:*

*No information available.*

*LD50, dermal:*

*No information available.*

*LC50, inhalation:*

*No information available.*

*Primary effects*

*Irritant effect on skin:*

*May cause skin irritation in sensitive persons.*

*Symptoms: redness, dryness, itching and pain.*

*Irritant effect on eyes:*

*May cause eye irritation in sensitive persons.*

*Symptoms may include itching, burning, redness and tearing.*

*Inhalation:*

*May cause coughing, allergy, discomfort or breathing difficulties when inhaled.*

*Ingestion:*

*Symptoms may include nausea, diarrhea and vomiting.*

*Sensitization:*

*No relevant data found.*

*Mutagenicity:*

*No relevant data found.*

*Reproductive toxicity:*

*No relevant data found.*

*Carcinogenicity:*

*No negative effects.*

*Teratogenicity:*

*No information available.*

*Specific target organ toxicity (STOT):*

*No relevant data found.*

*Additional toxicological information:*

*No information available.*

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### 12. Ecological Information

#### 12.1. Aquatic Toxicity

*No toxicity expected.*

*Fish toxicity:*

*Daphnia toxicity:*

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*Bacteria toxicity:*

*Algae toxicity:*

### 12.2. Persistency and Degradability

*3 % (28d); not readily biodegradable*

### 12.3. Bioaccumulation

*Product has the potential to bioaccumulate.*

### 12.4. Mobility

*No information available.*

### 12.5. Results of PBT- und vPvP Assessment

*Not classified as PBT substance / Not classified as a vPvB substance.*

### 12.6. Other Adverse Effects

*Water hazard class:*

*1, slightly hazardous*

*Behaviour in sewage systems:*

*Further ecological effects:*

*AOX Value:*

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## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

*Product:*

*Must be treated as toxic waste according to local laws and regulations.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Dispose of according to official local regulations.*

*Waste Code No.:*

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## 14. Transport Information

### 14.1. UN Number

*ADR, IMDG, IATA*

### 14.2. UN Proper Shipping Name

*ADR/RID:*

*No hazardous goods according to ADR (land transportation).*

*IMDG/IATA:*

*No hazardous goods according to IMDG.*

### 14.3. Transport Hazard Classes

*ADR Class:*

*not applicable*

*Hazard no.:*

*Classification code:*

*Tunnel restriction code:*

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*IMDG Class (sea):*

*Hazard no.:*

*EmS No.:*

*IATA Class:*

*not applicable*

*Hazard no.:*

### 14. 4. Packaging Group

*ADR/RID:*

*not applicable*

*IMDG:*

*IATA:*

### 14. 5. Environmental Hazards

### 14. 6. Special Precautions for User

*Not classified as a dangerous good under transport regulations.*

### 14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*not applicable*

### 14. 8. Further Information

*Not classified as a dangerous good under transport regulations.*

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## 15. Regulatory Information

### 15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

*1, slightly hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

### 15. 2. Chemical Safety Assessment

*A Chemical Safety Assessment is not necessary for this product.*

### 15. 3. Further Information

*Regulation (EC) 2037/2000 - Substances that Deplete the Ozone Layer: not regulated / not applicable*

*Regulation (EC) 850/2004 - Persistent organic pollutants and amending Directive 79/117/EEC: not regulated / not applicable*

*Regulation (EC) 689/2008 concerning the export and import of dangerous chemicals: not regulated / not applicable*

*EC REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

*Seveso II Directive: not applicable under Directive 96/82/EC.*

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## 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*

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*present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*