

Safety Data Sheet

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



87100 Cyclododecane

Page 1

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

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:

*Industrial application
Matting agent*

Uses advised against:

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: --

1.4. Emergency No.

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

1.4.2 Poison Center:

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)*

This product does not require classification and labelling as hazardous according to 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.

Safety Data Sheet

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



87100 Cyclododecane

Page 2

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

3.

3.1. Substance

3.2. Mixture

Chemical Characterization:

Information on Components / Hazardous Ingredients:

Cyclododecane	100 %	CAS-Nr: 294-62-2
		EINECS-Nr: 206-033-9
		EC-Nr:

Additional information:

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.

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

After skin contact:

Wash with soap and rinse with plenty of water.

After contact with molten material cool affected skin with water. If symptoms persist, consult a physician.

After eye contact:

Rinse open eye for several minutes under running water.

Seek medical attention if irritation persists.

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.

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.

5. Fire-Fighting Measures

next page: 3

Safety Data Sheet

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



87100 Cyclododecane

Page 3

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

5. 1. Extinguishing Media

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), water spray jet.
Fight larger fire with water jet or alcohol resistant foam.

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, CO₂ and fumes.

5. 3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

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

6. Accidental Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Provide adequate ventilation. Keep away from sources of ignition.
Respiratory protection in case of formation of vapors/dust/aerosol.
Wear appropriate protective equipment. Keep spectators away.
Avoid formation of dust.

6. 2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.
Contact local authorities if product pollutes soil or vegetation.

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.
Remove from the water surface (e.g. skim or suck off).

6. 4. Reference to other Sections

Protective clothing, see Section 8.
See Section 13 for information on disposal.

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

next page: 4

Safety Data Sheet

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



87100 Cyclododecane

Page 4

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

the surfaces.

Hygienic measures:

Keep away from foodstuffs and drinks.

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.

Protect product from direct sunlight.

Protect against overheating.

Do not store together with medicinal products, additives; infectious, radioactive and explosive substances; highly toxic and toxic substances.

Requirements for storage areas and containers:

Avoid pollution of soil.

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.

Storage class:

Further Information:

Avoid accumulation of dust.

7.3. Specific End Use(s)

Further information:

No further information available.

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

next page: 5

Safety Data Sheet

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



87100 Cyclododecane

Page 5

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

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 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:

Protective gloves made of butyl rubber.

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

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.

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>61°C</i>
<i>Boiling temperature:</i>	<i>243°C</i>
<i>Flash point:</i>	<i>98°C</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>

next page: 6

Safety Data Sheet

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



87100 Cyclododecane

Page 6

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

Vapor pressure:	<i>not applicable</i>
Vapor density:	<i>No information available.</i>
Density:	<i>0.83 g/cm³ (20°C)</i>
Solubility in water:	<i>not determined</i>
Coefficient of variation (n-Octanol/Water):	<i>4.2 logPow (23°C)</i>
Auto-ignition temperature:	<i>not determined</i>
Decomposition temperature:	<i>No data available.</i>
Viscosity, dynamic:	<i>not available</i>
Explosive properties:	<i>not applicable</i>
Oxidizing properties:	<i>no information available</i>

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

Ignition temperature: 230°C

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.

next page: 7

Safety Data Sheet

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



87100 Cyclododecane

Page 7

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

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.

10.7. Further Information

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.

next page: 8

Safety Data Sheet

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



87100 Cyclododecane

Page 8

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

12. Ecological Information

12.1. Aquatic Toxicity

No toxicity expected.

Fish toxicity:

Daphnia toxicity:

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:

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.:

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.

next page: 9

Safety Data Sheet

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



87100 Cyclododecane

Page 9

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

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.

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:

Seveso III Directive: not applicable under Directive 2012/18/EC.

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

next page: 10

Safety Data Sheet

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



87100 Cyclododecane

Page 10

Revised edition: 29.04.2021

Version: 4

Printed: 06.05.2021

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
RoHS Directive 2011/65/EC on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS 2): not listed.

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 be therefore not be construed as guaranteeing specific properties.