Material Safety Data Sheet
According to regulation (EC) No. 1907/2006 (REACH)

63812 Carbopol® EZ 2

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

1.1. Product Identifier

Product Name: Carbopol® EZ 2
Article No.: 63812

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

Identified uses:

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet

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.de
EMail: info@kremer-pigmente.de

1.4. Emergency No.

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

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC Regulation 1272/2008
Chronic aquatic toxicity, category 3
H412 Harmful to aquatic life with long lasting effects.
Cat.: 3

Classification according to EC Regulation No. 67/548 or No. 1999/45
R52 Harmful to aquatic organisms.
R53 May cause long-term adverse effects in the aquatic environment.

Safety Phrases:
Possible Environmental Effects:

2.2. Label Elements

Classification according to EC Regulation 1272/2008
Hazard designation:
Signal word:
Hazard designation:
H412 Harmful to aquatic life with long lasting effects.
Safety designation:
P273 Avoid release to the environment.
P313 Get medical attention.
P501 Dispose of contents/container according to regional, national and...
2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization:

Hazardous Ingredients:

Cyclohexane (Xn,F,N; R11-38-50/53-65-67; H225-304-315-336-400-410) 0.1-0.9%  CAS-Nr: 110-82-7  EINECS-Nr: 203-806-2  EC-Nr: 601-017-00-1

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. If required give artificial respiration. Keep patient warm.
Give artificial respiration in case breathing is not regular or if it has stopped.
If breathing is difficult call a physician.

After skin contact:

Wash with soap and rinse with plenty of water.
If irritation continues consult a physician.
Wash contaminated clothing before reuse.

After eye contact:

Immediately flush eyes with plenty of 1% physiological saline for 5 minutes while holding eyelids open: see a physician.
If no saline is available, flush with plenty of clean water for 15 minutes. See physician.
Water (moisture) swells this product into a gelatinous film which may be difficult to remove from the eye using only water.

After ingestion:

If symptoms persist consult physician.

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

Symptoms:

No further information available.

Effects:

No further information available.

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

Treatment:
5. Fire-Fighting Measures

5.1. Extinguishing Media

*Suitable extinguishing media:* Foam, carbon dioxide (CO2), extinguishing powder, water spray, water mist.

*CO2 may be ineffective on larger fires due to a lack of cooling capacity which may result in reignition.*

*Unsuitable extinguishing media:* Never apply a strong water jet.

5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:* Product may cause an explosive mixture of organic dust and air.

5.3. Advice for Firefighters

*Protective equipment:* Wear self-contained respiratory protective device and full protective gear.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:* Avoid formation of dust, wear protective clothing. Together with water product causes slippery surfaces.

6.2. Environmental Precautions

*Environmental precautions:* Prevent contamination of soil, drains and surface waters.

6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:* Clean up mechanically. Transfer liquids and solid diking material to separate suitable containers for recovery or disposal. Clean polluted are with water or other cleaning fluids.

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:* Do not eat or drink during work. Do not smoke. Do not swallow or inhale. Avoid contact with eyes and skin.

*Hygienic measures:* Take off contaminated clothing immediately and reuse only after
Material Safety Data Sheet  
According to regulation (EC) No. 1907/2006 (REACH)

63812 Carbopol® EZ 2

Revised edition: 21.08.2013  
Version:  
Printed: 11.06.2014

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:
Store in tightly sealed containers in a dry and cool room. 
Store containers in a well ventilated location.

Requirements for storage areas and containers:
No special measures necessary.

Information on fire and explosion protection:
Avoid dust formation. 
Keep away from sources of ignition - do not smoke. Take measures to prevent electricity static discharge. 
Ground and bond containers when transferring material.

Storage class (VCI):

Further Information:

7.3. Specific End Use(s)

Further information:
No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

Parameters to be controlled (EC):
Cyclohexane, CAS 110-82-7; TLV (8h) 200 ppm

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:
Provide adequate ventilation.

Personal Protection

General protective measures:
Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:
A respiratory protection program meeting OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator’s use.

Hand protection:
Chemical protective gloves (EN 374 (Europe), F739 (US)).

Protective glove material:
Eye protection: Safety glasses with protective shields (EN 166).

Body protection: Protective suit with long sleeves.

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder
Color: white
Odor: slight acetic

Odor threshold: No information available.

pH-Value: 2.5-3 (1% H2O)

Melting temperature: not determined

Boiling temperature: not determined

Flash point: not applicable

Evaporation rate: No information available.

Flammability (solid, gas): not flammable

Upper explosion limit: not determined

Lower explosion limit: 80 g/m³

Vapor pressure: not determined

Vapor density: No information available.

Density: 1.4 g/cm³ (20°C)

Solubility in water: will swell in water

Coefficient of variation (n-Octanol/Water): not determined

Auto-ignition temperature: not applicable

Decomposition temperature: No data available.
Material Safety Data Sheet
According to regulation (EC) No. 1907/2006 (REACH)

63812  Carbopol® EZ 2

Revised edition: 21.08.2013  Version:
Printed: 11.06.2014

9.2. Further Information

Solubility in solvents:
Viscosity, kinematic
Burning class:
Solvent content:
Solid content:
Particle size:
Other information:

10. Stability and Reactivity

10.1. Reactivity
Stable if used according to specifications.

10.2. Chemical Stability
Stable at room temperature.

10.3. Possibility of Hazardous Reactions
None if handled and stored according to specifications.

10.4. Conditions to Avoid
Conditions to avoid:
No information available.

Thermal decomposition:
No data available.

10.5. Incompatible Materials
Strong basic products such as ammonium, sodium hydroxide or strong basic amines (heat development).

10.6. Hazardous Decomposition Products
Carbon monoxide and dioxide, aldehyde, fumes.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:  > 2000 mg/kg (rat)
LD50, dermal:  > 2000 mg/kg (rabbit)
LC50, inhalation:  Avoid inhalation of dust.
Animal studies indicate the inhalation of respirable polyacrylate dust may cause inflammatory changes in the lung.

**Primary effects**

**Irritant effect on skin:**
Powder can cause local irritation in skin folds or beneath tightly worn clothes.
Dust may cause irritation.

**Irritant effect on eyes:**
Dust may irritate eyes.

**Inhalation:**
Irritates the respiratory tract.
Breathing of dust may cause coughing, mucous production, and shortness of breath.

**Ingestion:**
No information available

**Sensitization:**
No sensitizing effects known.

**Mutagenicity:**
No mutagenic effects observed.

**Reproductive toxicity:**
No negative effects.

**Cancerogenity:**
Not listed as carcinogenic by OSHA, IARC, NTP, ACGIH.

**Teratogenicity:**
Not considered to be teratogenic.

**Specific target organ toxicity (STOT):**
Repeated exposure: a lifetime (2-year) inhalation study in rats with respirable polyacrylate dust resulted in inflammation, hyperplasia, fibrosis and alveolar abnormalities. Suitable respiratory protection is required for professional users when contact with respirable polyacrylate dust is given.

**Additional toxicological information:**
Pre-existing skin conditions may be aggravated by prolonged or repeated exposure.
Persons with sensitive airways (e.g. asthmatics) may react to vapors.
This material readily absorbs moisture and may become thick and gelatinous upon contact with mucous membranes of the eye, or upon inhalation in the nasal passages.

---

**12. Ecological Information**

**12.1. Aquatic Toxicity**

**Fish toxicity:**
not determined

**Daphnia toxicity:**
EC50: 10 - 100 mg/l (48h, Daphnia magna)
Bacteria toxicity: not determined

Algae toxicity: not determined

12.2 Persistency and Degradability
Cyclohexane: 9 - 77 % (28d)

12.3 Bioaccumulation
Cyclohexane: logKOW 3.4

12.4 Mobility
No data available.

12.5 Results of PBT- und vPvP Assessment
No data available.

12.6 Other Adverse Effects
Water hazard class: 2 (German Regulation) (Assessment by list): hazardous. Do not let run into surface waters, waste water or soil.

Behaviour in sewage systems:
Further ecological effects:
AOX Value:

13. Disposal Considerations

13.1 Waste Treatment Methods
Product: Dispose of according to official national and local 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.

14.3 Transport Hazard Classes
ADR Class: not applicable

Hazard no.:
Classification code:
Material Safety Data Sheet
According to regulation (EC) No. 1907/2006 (REACH)

63812 Carbopol® EZ 2

Tunnel no.: 
IMDG Class (sea):
Hazard no.:
EmS No.:
IATA Class:

not applicable

Hazard no.:

14. 4. Packaging Group
ADR/RID: 
IMDG:
IATA:

not applicable

14. 5. Environmental Hazards

None

14. 6. Special Precautions for User

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

not applicable

14. 8. Further Information

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

Water hazard class: 
2, hazardous for water

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 has not been carried out for this product.

15. 3. Further Information

Listed in:
EINECS (EU), TSCA (US), AICS (AUS), DSL/NDSL (CA), PICCS (PH), ECL (KR), MITI/ENCS (JP), IECSC/NEPA (CN), CH, NZIoC (NZ)

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.