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## 1 Identification of the substance/mixture and of the company/undertaking

- **Informations to product No. 4156**
- **Product name:**

### **Carbopol® 974P** **Carbomer 35.000**

- **Supplier of the Product / responsible Company:**

Caesar & Loretz GmbH  
Herderstr. 31  
40721 Hilden  
Tel.: 02103/4994-0  
Fax: 02103/32360  
e-mail: info@caelo.de

- **Emergency telephone:**

Giftinformationszentrum Mainz  
Langenbeckstr. 1, 55131 Mainz  
Tel.: 06131/19240

- **Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

- **Application of the substance / mixture:**

Ingredient for pharmaceutical drugs or active pharmaceutical ingredient.

## 2 Hazards identification

- **Hazard classification:** The substance is not classified as dangerous according to European Union legislation.

## 3 Composition / information on ingredients

- **Chemical characterization:**

### **CAS-No. Substance name**

9003-01-4 2-Propenoic acid, homopolymer (Carbopol 974P)

- **EINECS-No.:** 618-347-7


- **REACH Reg. No.:** 01-2120754771-50-0000

- **INCI-Name:** Carbomer

(Carbopol 974P contains 1-3% potassium carbonate)

## 4 First aid measures

- **after inhalation:** Fresh air, if feeling unwell continuously, seek medical advice.
- **after skin contact:** Take off contaminated clothes and shoes, wash immediately with plenty of water and soap.
- **after eye contact:** Rinse out with plenty of water immediately with the eyelid wide open. Seek medical advice. Powder causes only slight irritation in the eyes, if removed immediately. The product forms with water a gelatinous film, which is difficult to remove only with water.
- **after swallowing:** Induce vomiting. Seek medical advice.

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## 5 Fire-fighting measures

- **Suitable extinguishing media:** All regular extinguishing media can be used. Select fire fighting measures suitable to surrounding environment.
- **Specific hazards during fire fighting:** Combustible. In case of fire dangerous vapours/gases can be generated: Smoke gases.
- **Special protective equipment for fire-fighters:** Suitable protective clothes and respiratory protection. Explosive dust-air-mixtures can be formed.
- **Additional information:** Prevent fire extinguishing water from contaminating surface water, the ground water system or soil. Residues must be deposited according to local regulations.

## 6 Accidental release measures

- **Personal protective measures:**  
Avoid dust formation. Spilled material will get slippery in contact with moisture..  
Avoid inhaling dust. Provide eye protection
- **Methods for cleaning:** Take up dry. Disposal according to Chapter 13 of this MSDS. Do not use water.

## 7 Handling and storage


- **Handling:**
- **Advice on safe handling:** If dust is generated wear respiratory protection mask.
- **Informations to fire or explosion protection:** Avoid dust formation.
- **Storage:**
- **Requirements for storage areas and containers:** Avoid electrostatic charging. Store cool and dry, in a good ventilated area. Keep container tightly closed.
- **Advices on common storage:** Avoid contact with alkaline substances.
- **Additional informations to storage conditions:** Product is strongly hygroscopic and is swelling in water.

## 8 Exposure controls / personal protective equipment

- **Personal protective equipment:**
- **General protective and hygiene measures:** The usual precaution measures during handling of chemicals are to observe.
- **Respiratory protection:** Dust protection mask.
- **Hand protection:** Protection gloves of rubber or latex.
- **Eye protection:** Safety glasses.

## 9 Physical and chemical properties

- **Form:** solid (Powder)
- **Colour:** white
- **Odour:** slightly acid
- **Melting point / melting range:** not determined
- **Boiling point / boiling range:** not determined
- **Flash point:** not determined

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- **Flammability (solid, vapours):** The product is not flammable.
- **Ignition temperature:** 520 °C (Dust)
- **Explosion hazard:** The product is not flammable, but explosive dust-air-mixtures can be formed.  
Ignition energy > 1 Joule with 0,5 kg Staub/cbm air
- **Explosion limits:**
- **lower:** 130 g/m<sup>3</sup>
- Min. ignition energy:** > 0.05 joules
- Deflagration index:** 130 bar m/sec
- Maximal rate of pressure rise:** 379.21 bar/s @ 501 g/m<sup>3</sup>
- Maximal pressure of explosion:** 4.83 bar @ 501 g/m<sup>3</sup>
- **Density:** Bulk density 240 kg/cbm
- **Solubility in / Miscibility with**
- **Water:** (20 °C) dispergable
- **pH-range:** (10 g/l, 20 °C) 2,5 - 3

## 10 Stability and reactivity

- **Thermal decomposition / conditions to avoid:**  
No decomposition during appropriate use.
- **Materials to avoid:** Bases.
- **Hazardous reactions:** No hazardous reactions known.
- **Hazardous decomposition products:** Carbon dioxide, Carbon monoxide and small quantities of aliphatic and aromatic hydrocarbons.

## 11 Toxicological information

- **Acute toxicity:**  
LD50 > 10,000 mg/Kg.  
LD50 (dermal,Rabbit) >3000 mg/kg
- **Primary irritant effect:**
- **on skin:** Can cause slight skin irritation.  
Extremely strong and enduring exposition can cause moderate contct dermatitis on sensible persons.
- **on eyes:** No or slight eye irritation. Particles can cause mechanical irritation.
- **on respiratory ways:** Dust in high concentration can cause irritations of mucous membranes or upper respiratory ways. Inhalation of dust can cause coughing and respirators insufficiency.
- **Sensitization:** sensitization of skin not likely. Sensitization of respiratory ways: No indication of sensitization of respiratory ways known.
- **Sub-acute / chronic toxicity:** Harmful effects on lungs were observed on rats after life-long inhalative exposition to respirable polyacrylate dust. The effects were for example: Inflammation, hyperplasia, fibrosis and alveolar abnormalities. Contact with respirable polyacrylate dust has to be avoided by using appropriate respiratory protection and observation of recommended exposition limits of 0,05 mg/m<sup>3</sup>.
- **Carcinogenicity:** In NTP, IARC or OSHA not listed as cancerogene or suspected substance.
- **Mutagenity:** No indications of mutagene or genotoxic effects.
- **Reproductive toxicity:** No indications for reproductive toxicity.
- **Teratogenity:** No indications for teratogenity.
- **Additional toxicological informations:** Existing skin diseases can be worse after enduring or repeating exposition. Persons with sensible respiratory ways (Asthma) might react on the dust/vapours. The material absorbes moisture easily and in contact with eyes or mucous membranes cit can be viscous and gelatinous.

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## 12 Ecological information

- **Ecotoxicological effects:**

**Biodegradation** At least 25% of the components of the product have a limited biodegradability (Tests according to OECD 301 and OECD 302).

- **Remark:**

LC50 (Bluegil, Sunfish 96h): 580-2000 mg/l

LC50 (Daphnia magna 96h): 168- 280 mg/l

- **Water hazard class:** 1 (VwVwS): slightly hazardous for water.

- **General advices:** Do not allow product to reach ground water, water course or sewage system.

## 13 Disposal considerations

- **Product:**

- **Recommendation:** Disposal according to local regulations as pharmaceutical waste..

- **Empty contaminated packaging:**

- **Recommendation:** Disposal according to the local regulations.

## 14 Transport informations

- **Land transport according to ADR:**

Not classified as dangerous in the meaning of transport regulations.

## 15 Regulatory information

- **Labelling according to actual legislation (GHS, Globally Harmonized System of Classification and Labelling of Chemicals):**

The product does not need to be labelled according to GHS-regulations.

- **National regulations (Germany):**

- **Water hazard class:** see chapter 12

- **Storage class TRGS 510:** 11

## 16 Other Information

The information provided in this MSDS is correct to the best of our knowledge at the date of edition.

- **Reason for last revision:** Adjustment to regulation (EC) 1907/2006 (REACH) and GHS-labelling system.