

# deffner & Johann

Produkte für DENKMALPFLEGE | RESTAURIERUNG | ART HANDLING – SEIT 1880.

## SICHERHEITSDATENBLATT

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## Safety Data Sheet according to Regulation (EC) No. 830/2015

Version: 9

Revision date: 24.09.2019

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

#### 1.1. Product identifier

## ARBOCEL PWC 500

Technical cellulose

**CAS No.:** 9004-34-6  
**EC No.:** 232-674-9  
**INDEX No.:** not relevant  
**REACH No.:** do not require registration

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

**Relevant identified uses:** The product is intended for professional use.  
**Uses advised against:** not relevant

#### 1.3. Details of the supplier of the safety data sheet

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

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#### 1.4. Notrufnummer

**Telefon:** +49 9723 9350- 0 (Mo-Fr: 08:00-15:00)

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

not relevant

#### 2.2. Label elements

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**  
not relevant

#### 2.3. Other hazards

This material is combustible, but will not ignite readily.  
In case of fire may be liberated: Carbon monoxide. Carbon dioxide.  
Danger of dust explosion.  
Damage can be caused through mechanical influence of the product (e.g. sticking).

**SECTION 3: Composition / information on ingredients****3.1. Substances**

Cellulose  
CAS-No.: 9004-34-6  
EC-No.: 232-674-9  
Index-No.: not relevant

**3.2. Mixtures****Composition/information on ingredients**

| Substance:   | EC-no.:      | CAS-No.:     | INDEX no.:   | REACH-no.:   | Concentration: | Classification:                     |
|--------------|--------------|--------------|--------------|--------------|----------------|-------------------------------------|
| not relevant | not relevant | not relevant | not relevant | not relevant | not relevant   | EC 1272/2008 (CLP):<br>not relevant |

**Substance with a common (EC) occupational exposure limit value**

| Substance:   | EC-no.:      | CAS-No.:     | INDEX no.:   | REACH-no.:   | Concentration: | Classification:                     |
|--------------|--------------|--------------|--------------|--------------|----------------|-------------------------------------|
| not relevant | not relevant | not relevant | not relevant | not relevant | not relevant   | EC 1272/2008 (CLP):<br>not relevant |

(Full text of H- and EUH-phrases: see section 16.)

**Additional information**

The substance does not require registration according to REACH.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

**General information:** When in doubt or if symptoms are observed, get medical advice  
**Following inhalation:** Provide fresh air  
**Following skin contact:** not relevant  
**After eye contact:** Rinse immediately carefully and thoroughly with eye-bath or water  
In case of eye irritation consult an ophthalmologist  
**After ingestion:** not relevant

**Self-protection of the first aider:** not relevant

**4.2. Most important symptoms and effects, both acute and delayed**

**Symptoms:** No known symptoms to date  
**Nature of Hazard:** not relevant

**4.3. Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor:** Treat symptomatically  
**Special treatment:** Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable extinguishing media:** Water. Carbon dioxide. Foam. Dry extinguishing powder.  
**Unsuitable extinguishing media:** High power water jet.

**5.2. Special hazards arising from the substance or mixture**

In case of fire may be liberated: Carbon monoxide. Carbon dioxide.

**5.3. Advice for firefighters**

**General information**  
Danger of dust explosion.

**Special protective equipment for firefighters:**

In case of fire: Wear self-contained breathing apparatus.

**Additional information**

Fire class A (Fires of solids, mainly organic nature, which normally burn down under glow forming).

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel:

Avoid generation of dust.

For emergency responders:

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Avoid generation of dust.

See protective measures under point 7 and 8.

**6.2. Environmental precautions**

No special environmental measures are necessary.

**6.3. Methods and material for containment and cleaning up**

Take up mechanically.

Avoid generation of dust.

Do not use a dry brush as dust clouds or static can be created.

**6.4. Reference to other sections**

Disposal: see section 13.

See protective measures under point 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling****Advices on safe handling**

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

It is recommended to design all work processes always so that the following is excluded:

Inhalation of dust/particles

**Technical measures**

Measures to prevent aerosol and dust generation:

Provide adequate ventilation as well as local exhaustion at critical locations.

Dust should be exhausted directly at the point of origin.

**Precautions against fire and explosion**

The product is: Combustible.

Danger of dust explosion.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Have fire-extinguishers in readiness before opening containers.

**Additional information**

Recommendations for handling:

210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

240 Ground/bond container and receiving equipment.

241 Use explosion-proof electrical/ventilating/lighting equipment.

280 Wear protective gloves/protective clothing/eye protection/face protection.

## 7.2. Conditions for safe storage, including any incompatibilities

### Technical measures and storage conditions

not relevant

### Packaging materials

not relevant

### Requirements for storage rooms and vessels

not relevant

### Hints on joint storage

Storage class: 11 Combustible solids

### Further information on storage conditions

Protect against: Humidity

Storage temperature: not relevant

Relative air humidity (%): not relevant

Storage stability: at least 5 years

Maximum storage period (time): not relevant

## 7.3. Specific end use(s)

not relevant

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limit value

| Substance:        | CAS-No.:  | Source: | Long-term occupational exposure limit value:   | Short-term occupational exposure limit value: | Remark:          |
|-------------------|-----------|---------|--|---|------------------|
| Calcium carbonate | 471-34-1  | GESTIS  | 10 mg/m <sup>3</sup>   |   | OEL AU           |
| Calcium carbonate | 471-34-1  | GESTIS  | 10 mg/m <sup>3</sup><br>inhalable aerosol<br>4 mg/m <sup>3</sup><br>respirable aerosol   |   | OEL GB           |
| Calcium carbonate | 471-34-1  | GESTIS  | 10 mg/m <sup>3</sup><br>inhalable fraction<br>4 mg/m <sup>3</sup><br>respirable fraction |   | OEL IE           |
| Calcium carbonate | 471-34-1  | GESTIS  | 10 mg/m <sup>3</sup>   |   | OEL NZ           |
| Calcium carbonate | 471-34-1  | GESTIS  | 15 mg/m <sup>3</sup><br>total dust<br>5 mg/m <sup>3</sup><br>respirable dust             |   | OEL US - OSHA    |
| Cellulose         | 9004-34-6 | GESTIS  | 10 mg/m <sup>3</sup>   |   | OEL AU           |
| Cellulose         | 9004-34-6 | GESTIS  | 10 mg/m <sup>3</sup>   |   | OEL CA - Ontario |
| Cellulose         | 9004-34-6 | GESTIS  | 10 mg/m <sup>3</sup><br>inhalable aerosol<br>4 mg/m <sup>3</sup><br>respirable aerosol   |   | OEL GB           |
| Cellulose         | 9004-34-6 | GESTIS  | 10 mg/m <sup>3</sup><br>Inhalable fraction<br>4 mg/m <sup>3</sup><br>respirable fraction |   | OEL IE           |
| Cellulose         | 9004-34-6 | GESTIS  | 10 mg/m <sup>3</sup>   |   | OEL NZ           |
| Cellulose         | 9004-34-6 | GESTIS  | 10 mg/m <sup>3</sup><br>total dust<br>5 mg/m <sup>3</sup><br>respirable aerosol          |   | OEL US - NIOSH   |
| Cellulose         | 9004-34-6 | GESTIS  | 15 mg/m <sup>3</sup><br>total dust<br>5 mg/m <sup>3</sup><br>respirable dust             |   | OEL US - OSHA    |

#### Substance with a common (EC) occupational exposure limit value

| Substance:   | CAS-No.:     | Source:      | Long-term occupational exposure limit value: | Short-term occupational exposure limit value: | Remark:      |
|--------------|--------------|--------------|--|---|--------------|
| not relevant | not relevant | not relevant | not relevant                                 | not relevant                                  | not relevant |

**DNEL-/PNEC-values****DNEL value**

| Substance:        | CAS-No.: | DNEL/DMEL   | Worker                 | Consumer               |
|-------------------|----------|---|------------------------|------------------------|
| Calcium carbonate | 471-34-1 | Inhalation long term<br>(local effects,<br>repeated dose) | 6.36 mg/m <sup>3</sup> | 1.06 mg/m <sup>3</sup> |
| Calcium carbonate | 471-34-1 | Oral long term<br>(systemic effects)                      | not relevant           | 6.1 mg/kg bw/day       |
| Calcium carbonate | 471-34-1 | Oral short term<br>(systemic effects)                     | not relevant           | 6.1 mg/kg bw/day       |

**PNEC Value**

| Substance:        | CAS-No.: | PNEC | Limit value | Remark                |
|-------------------|----------|------|-------------|-----------------------|
| Calcium carbonate | 471-34-1 | STP  | 100 mg/l    | Assessment factor: 10 |

**Risk management measures according to used control banding approach**

not relevant

**Additional information**

not relevant

**8.2. Exposure controls****Occupational exposure controls**

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

**General protection and hygiene measures**

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

**Personal protection equipment**

Respiratory protection necessary at: Dust formation.

**Respiratory protection**

Suitable respiratory protection apparatus: Filtering Half-face mask (DIN EN 149)

Half-face mask or quarter face piece: maximum use concentration for substances with exposure limits:

P1 filter: up to a max. of 4 times the exposure limit.

P2 filter: up to a max. of 10 times the exposure limit.

P3 filter: up to a max. of 30 times the exposure limit.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

If the concentration is exceeded, self-contained breathing apparatus must be used!

**Hand protection**

Hand protection is not required

**Eye/face protection**

Dust protection eye glasses

**Body protection**

Body protection: not applicable

**Environmental exposure controls**

See chapter 7. No additional measures necessary.

**Consumer exposure controls**

not relevant

**Exposure Scenario**

not relevant

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties****Appearance**

|                         |              |
|-------------------------|--------------|
| <b>Physical state:</b>  | Fiber        |
| <b>Colour:</b>          | off-white    |
| <b>Odour:</b>           | odourless    |
| <b>Odour threshold:</b> | not relevant |

**Safety relevant basis data**

| Parameter                                       |         | Unit      | Remark            |
|---|---------|-----------|-------------------|
| <b>Density:</b>                                 | approx. | 1.3       | g/cm <sup>3</sup> |
| <b>Bulk density:</b>                            |         | 70 - 100  | kg/m <sup>3</sup> |
| <b>pH:</b>                                      |         | 6.5 - 8.5 |                   |
| <b>Melting point/freezing point:</b>            |         |           | not applicable    |
| <b>Initial boiling point and boiling range:</b> |         |           | not applicable    |
| <b>Flash point:</b>                             |         |           | not determined    |
| <b>Flammability (solid, gas):</b>               |         |           | not relevant      |
| <b>Explosivity:</b>                             |         |           | Dust explosive    |
| <b>Lower explosion limit:</b>                   |         | 30        | g/m <sup>3</sup>  |
| <b>Upper explosion limit:</b>                   |         | 11 000    | g/m <sup>3</sup>  |
| <b>Ignition temperature:</b>                    |         |           | not determined    |
| <b>Decomposition temperature:</b>               | approx. | 200       | °C                |
| <b>Oxidizing potential:</b>                     |         |           | not oxidizing     |
| <b>Vapour pressure:</b>                         |         |           | not applicable    |
| <b>Vapour density:</b>                          |         |           | not applicable    |
| <b>Evaporation rate:</b>                        |         |           | not applicable    |
| <b>Water solubility:</b>                        |         |           | insoluble         |
| <b>Fat solubility:</b>                          |         |           | insoluble         |
| <b>Soluble in:</b>                              |         |           | not relevant      |
| <b>Partition coefficient:</b>                   |         |           |                   |
| <b>n-octanol/water:</b>                         |         |           | not applicable    |
| <b>Viscosity:</b>                               |         |           | not applicable    |
| <b>Solvent separation test:</b>                 |         |           | not applicable    |
| <b>Solvent content:</b>                         |         |           | not relevant      |

**9.2. Other information**

Dust explosion category: St 1  
 Minimum ignition energy in mJ: > 30  
 Minimum ignition temperature of a dust cloud (C°):  $\geq 400$   
 Flammability and burning behaviour of dust layers: combustion rate (BZ) 5  
 Minimum ignition temperature of a 5 mm dust layer (glowing temperature):  $\geq 330$  °C  
 Maximum explosion pressure in bar:  $\leq 9.5$   
 KSt-value in bar m s-1:  $\leq 200$

The product has not been tested.

The statement is derived from products of similar composition.

**SECTION 10: Stability and reactivity****10.1. Reactivity**

not relevant

**10.2. Chemical stability**

not relevant

**10.3. Possibility of hazardous reactions**

not relevant

**10.4. Conditions to avoid**

Decomposition takes place from temperatures above: approx. 200 °C

**10.5. Incompatible materials**

not relevant

**10.6. Hazardous decomposition products**

In case of fire may be liberated: Carbon monoxide. Carbon dioxide

**Additional information**

not relevant

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

not relevant

**Acute toxicity**

| Substance:   | CAS-No.:     | Toxicological information |
|--------------|--------------|---------------------------|
| not relevant | not relevant | not relevant              |

**Specific symptoms in laboratory animals**

not relevant

**Irritation and etching****Irritant effect on the skin**

Not an irritant

**Irritant effect on the eye**

Not an irritant

**Irritant effect on the respiratory tract**

Not an irritant

**Caustic effect**

not corrosive

**Sensitization**

not sensitising

**Repeated dose toxicity (subacute, subchronic, chronic)**

not relevant

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)****Carcinogenicity**

not relevant

**Germ cell mutagenicity**

not relevant

**Reproductive toxicity**

not relevant

**General remarks**

Damage can be caused through mechanical influence of the product (e.g. sticking).

**Practical experience/human evidence**

not relevant



**Other observations**

not relevant

**Other information**

not relevant

**SECTION 12: Ecological information****12.1. Toxicity**

not relevant

**Eco toxicity**

| Substance:   | CAS-No.:     | Eco toxicity |
|--------------|--------------|--------------|
| not relevant | not relevant | not relevant |

**12.2. Persistence and degradability**

not persistent

**12.3. Bio accumulative potential**

No indication of bioaccumulation potential

**12.4. Mobility in soil**

not relevant

**12.5. Results of PBT and vPvB assessment**

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII

**12.6. Other adverse effects**

not relevant

**Further ecological information**

According to the present state of knowledge negative ecological effects are not expected.

**Further details**

not relevant

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Appropriate disposal/Product**

Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**

Completely emptied packing can be recycled.

**List of proposed waste codes/waste designations in accordance with EWC****Waste code product:** 03 03 99 - wastes not otherwise specified**Waste code packaging:** 15 01 06 - mixed packaging**Remark**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EWC, specific to the industry and process.

**SECTION 14: Transport information****14.1. UN number**

not relevant

**14.2. UN proper shipping name**

not relevant

**14.3. Transport hazard class(es)**

not relevant

**14.4. Packing group**

not relevant

**14.5. Environmental hazards**

not relevant

**14.6. Special precautions for user****Land transport (ADR/RID)****Remark:** No dangerous good in sense of this transport regulation**Sea transport (IMDG)****Remark:** No dangerous good in sense of this transport regulation**Air transport (ICAO-TI / IATA-DGR)****Remark:** No dangerous good in sense of this transport regulation**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code****Remark:** not relevant**SECTION 15: Regulatory information****Labeling****Hazardous component(s) for labelling**

not relevant

**Special labelling of particular preparations**

not relevant

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU legislation****Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline)**

not relevant

**Regulation (EC) No. 2037/2000 concerning materials, which cause damage to the ozone layer**

not relevant

**Regulation (EC) No. 648/2004 (Detergents regulation)**

not relevant

**National regulations**

Observe in addition any national regulations!

**Restrictions of occupation**

not relevant

**Storage class**

11 Combustible solids

**Water hazard class (WGK)**

non-hazardous to water (nwg)

**Other regulations, restrictions and prohibition regulations**

not relevant

**15.2. Chemical Safety Assessment**

For this substance a chemical safety assessment has not been carried out.

**SECTION 16: Other information****Relevant H- and EUH-phrases (Number and full text)**

not relevant

**Training advice**

not relevant

**Recommended restrictions of use**

not relevant

**Further remarks**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge.

The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal.

The information cannot be transferred to other products.

In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

**Documentation of changes**

| Data changed compared with the previous version

**Key literature references and sources for data**

Data arise from reference works and literature

GESTIS- substances data base

Regulation (EC) 1272/2008 (CLP)

**Abbreviations and acronyms**

EWC = European Waste Catalogue