

## SAFETY DATA SHEET

[info@deffner-johann.de](mailto:info@deffner-johann.de) | +49 9723 9350-0

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Version: 1

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

### 1.1. Product identifier

# Microcrystalline Cellulose

Soft Particle Blasting Media

**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

Deffner & Johann GmbH  
Mühläckerstr. 13  
D 97520 Röthlein  
Deutschland

**Telefon:** +49 9723 9350-0  
**Telefax:** +499723 9350- 25

**Ansprechpartner für Informationen**  
Information

**E-Mail :** [info@deffner-johann.de](mailto:info@deffner-johann.de)  
**Webseite:** [www.deffner-johann.de](http://www.deffner-johann.de)

### 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

Regulation (EC) No. 1272/2008 (CLP): not relevant  
Directive 67/548/EEC: not relevant

### 2.2. Label elements

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**  
not relevant  
**Classification according to Directive 67/548/EEC or 1999/45/EC**  
not relevant

### 2.3. Other hazards

This material is combustible, but will not ignite readily.  
The substance does not require registration according to Regulation (EC) No 1207/2006 [REACH].

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

Micro crystalline 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: EC 1272/2008(CLP):	Classification: 67/548/EEC:
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

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

Substance:	EC-no.:	CAS-No.:	INDEX no.:	REACH-no.:	Concentration:	Classification: EC 1272/2008(CLP):	Classification: 67/548/EEC:
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	not relevant	

(Full text of R-, 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 spray. Water mist. Foam. Extinguishing powder.  
 Carbon dioxide (CO<sub>2</sub>). Sand.

**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.

Personal protection equipment: see section 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.

#### 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.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

Have fire-extinguishers in readiness before opening containers.

#### Additional information

Dust explosive

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**

not relevant

**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:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
Microcrystalline Cellulose	9004-34-6	GESTIS	10 mg/m <sup>3</sup>		OEL AU
Microcrystalline Cellulose	9004-34-6	GESTIS	10 mg/m <sup>3</sup>		OEL CA-Ontario
Microcrystalline Cellulose	9004-34-6	GESTIS	10 mg/m <sup>3</sup> inhalable aerosol 4 mg/m <sup>3</sup> respirable aerosol		OEL GB
Microcrystalline Cellulose	9004-34-6	GESTIS	10 mg/m <sup>3</sup> Inhalable fraction 4 mg/m <sup>3</sup> respirable fraction		OEL IE
Microcrystalline Cellulose	9004-34-6	GESTIS	10 mg/m <sup>3</sup>		OEL NZ
Microcrystalline Cellulose	9004-34-6	GESTIS	10 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable aerosol		OEL US – NIOSH
Microcrystalline Cellulose	9004-34-6	GESTIS	15 mg/m <sup>3</sup> total dust 5 mg/m <sup>3</sup> respirable dust		OEL US - OSHA

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

Substance:	CAS-No.:	Source:	Occupational exposure limit value:	Limitation of exposure peaks:	Remark:
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

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

Substance:	CAS-No.:	DNEL/DMEL	Industry	Professional	consumer
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

**PNEC Value**

Substance:	CAS-No.:	PNEC	Worker, industry	Worker, professional	consumer
not relevant	not relevant	not relevant	not relevant	not relevant	not relevant

**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.

Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

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>	Powder
<b>Colour:</b>	white
<b>Odour:</b>	odourless
<b>Odour threshold:</b>	not relevant

**Safety relevant basis data**

Parameter		unit	remark
<b>Density:</b>	approx. 1.5	g/cm <sup>3</sup>	
<b>Bulk density:</b>	250 - 310	kg/m <sup>3</sup>	
<b>pH:</b>	5 - 7		
<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>	11000	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: 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°): 400  
 Flammability and burning behaviour of dust layers: combustion rate (BZ) 5  
 Minimum ignition temperature of a 5 mm dust layer (glowing temperature): >= 330 °C  
 Maximum explosion pressure in bar: < 9.5  
 KSt-value in bar m s-1: < 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**Carbon monoxide. Carbon dioxide (CO<sub>2</sub>)**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 (sub-acute, sub chronic, 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 packages 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)**

not a water pollutant (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 R-, 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

Directive 67/548/EEC

Directive 1999/45/EC

Regulation (EC) 1272/2008 (CLP)

**Abbreviations and acronyms**

EWC = European Waste Catalogue