

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**BEECK Mono Crystalline fine**

Print date: 13.08.2019

Product code: FWB\_B88

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

BEECK Mono Crystalline fine

**1.2. Relevant identified uses of the substance or mixture and uses advised against****Use of the substance/mixture**

Single-component pure silicate paint.

The product is to be used exclusively for the applications named in the technical data sheet.

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

Company name:	BEECK'SCHE FARBWERKE GmbH	
Street:	Gottlieb-Daimler-Strasse 4	
Place:	D-89150 Laichingen	
Telephone:	+49 (0) 7333 / 9607-11	Telefax: +49 (0) 7333 / 9607-10
e-mail:	info@beeck.com	
Contact person:	Ralf Rieks	Telephone: +49 (0) 7333 / 9607-14
e-mail:	Ralf.Rieks@beeck.com	
Internet:	www.beeck.com	
Responsible Department:	Factory Laichingen, Gottlieb-Daimler-Str. 4, D-89150 Laichingen Tel. +49(0)7333/9607-11 Fax: +49(0)7333/9607-10 Mo-Fr: 8.00 -16.00 hour	

**1.4. Emergency telephone****number:**

United Kingdom +44 870 600 626 / 0870 600 6266  
 GBK GmbH Global Regulatory Compliance  
 +49(0)6132/84463

**Further Information**

No more data.

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Classification according to Directive 67/548/EEC or 1999/45/EC**

This mixture is not classified as hazardous according to Directive 1999/45/EC.

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This mixture is not classified as hazardous according to Regulation (EC) No. 1272/2008.

**2.2. Label elements****Precautionary statements**

P102	Keep out of reach of children.
P262	Do not get in eyes, on skin, or on clothing.

**Special labelling of certain mixtures**

EUH210	Safety data sheet available on request.
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**2.3. Other hazards**

No data available.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures****Chemical characterization**

Water: 40 - 50 %

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### Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
REACH No		
236-675-5	Titanium oxide	10 - < 15 %
13463-67-7		
	Calcium carbonate	1 - < 5 %
1317-65-3		

Full text of R-, H- and EUH-phrases: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In case of feeling unwell: Obtain medical attention.

Show this safety data sheet to the doctor in attendance. Never give anything by mouth to an unconscious person. Lay the affected person down and keep him still; If unconscious, place the person in the recovery position.

Eye wash fountains and safety showers must be easily accessible.

#### After inhalation

Move out of dangerous area. Protection is needed for the First Aider.

Move to fresh air. Lay the affected person down, and keep her or him warm and calm. If symptoms persist, call a physician. In case of irregular breathing or respiratory arrest: Oxygen or artificial respiration, if needed.

#### After contact with skin

Wash contaminated skin areas thoroughly with soap and water. Remove soiled clothing.

Do not use solvents or thinners.

Obtain medical attention.

#### After contact with eyes

Rinse with plenty of water immediately, also under the eyelids, for at least 15 minutes. Remove contact lenses after the first 1 - 2 minutes and continue flushing.

Consult an ophthalmologist immediately.

#### After ingestion

Immediately give large quantities of water to drink. Do not induce vomiting.

In the event of spontaneous nausea and unconsciousness, keep the head back and bring the patient into the recovery position. Keep the respiratory tract open, prevent aspiration. Lay the affected person down, and keep her or him warm and calm. Consult a physician.

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

May cause eye/skin irritation.

nausea, vomiting, cough, shortness of breath, abdominal pain.

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

Symptomatic treatment (decontamination and vital functions). If necessary, contact poison centre.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

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### **Suitable extinguishing media**

The product itself does not burn. Use extinguishing measures that are appropriate to the environment.

### **Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

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

The release of the following substances is possible in a fire: carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), smoke, nitrogen oxides (NO<sub>x</sub>).

The inhalation of hazardous decomposition products may cause serious health damage.

### **5.3. Advice for firefighters**

Do not breathe in the vapours and combustion gases. Wear self-contained breathing apparatus for fire fighting, if necessary.

### **Additional information**

Contaminated extinguishing water and soil must be disposed of in accordance with official regulations.

Do not let product enter drains.

## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to a safe area. Ensure adequate ventilation, especially in confined areas. Do not breathe in vapours and mist.

Use personal protective equipment. Wear suitable gloves and eye/face protection. Avoid bringing product in contact with the skin.

Slipping hazard due to leakage.

### **6.2. Environmental precautions**

May not end up in waste water or open waters. Entry into rivers or surface water is to be prevented by the erection of barriers made of sand or earth or by other suitable barriers. Contact the responsible authority immediately if the product ends up in the soil, a body of water, or the sewer system.

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

Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder). Dispose of as described in section 13. After cleaning, flush away traces with water.

### **6.4. Reference to other sections**

See section 8, 13

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Provide sufficient air exchange and/or exhaust in work rooms. Containers keep tightly closed. Avoid contact with skin and eyes.

The further treatment / removal of coatings by grinding, burning, etc. may create hazardous dust and/or vapour. Wear suitable gloves and eye/face protection.

Do not breathe vapours/dust. When using, do not eat, drink, or smoke.

Suitable protective equipment: See section 8.

#### **Advice on protection against fire and explosion**

The product is not flammable.

The product is not explosive.

#### **Further information on handling**

Comply with the health and safety at work laws. Handle, store and transport in compliance with local regulations and in labelled containers that are suitable for this product.

Do not use containers from following material: aluminium, zinc, glass.

Take notice of the directions of use on the label.

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

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**Requirements for storage rooms and vessels**

Store in compliance with the local regulations. Store sealed in the original container.  
Keep in a dry, cool place. Protect from freezing.

**Advice on storage compatibility**

Do not store near acids. (Release of: CO<sub>2</sub>)

**Further information on storage conditions**

Smoking in the storage rooms is forbidden. Entry by unauthorized individuals is forbidden.  
Keep at temperatures between 5°C and 25°C.  
Already opened containers should be closed thoroughly and should be stored upright in order to prevent leakage.

**7.3. Specific end use(s)**

No data available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
1317-65-3	Calcium carbonate, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

**8.2. Exposure controls****Appropriate engineering controls**

Ensure adequate ventilation, especially in confined areas. This can be achieved by local or space exhaust. If this is not sufficient, in order to hold the solvent vapour concentration lower than the occupational exposure limit an approved respiratory protection apparatus must be worn.

**Protective and hygiene measures**

Avoid contact with skin and eyes. Do not breathe in vapours or spray mist. Remove and wash contaminated clothing before re-use. Do not eat, drink, smoke or take snuff at work. Wash hands before breaks and immediately after handling the product. Keep away from food, drink and animal food stuffs.

**Eye/face protection**

Wear suitable gloves and eye/face protection.  
Eye wash.

**Hand protection**

Protective gloves.  
The manufacturer recommends the following glove materials: PVC- or rubber gloves.  
Safety gloves should be selected for the actual conditions of use and in accordance with the instructions for use provided by the manufacturer.  
Preventive skin protection: skin protection cream.

**Skin protection**

Impervious clothing, boots, apron, protective gloves.  
Take off all contaminated clothing immediately. Wash contaminated skin areas thoroughly with soap and water.

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#### Respiratory protection

When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators. In order to avoid inhalation of spray-mist and sanding dust, all spraying and sanding must be done wearing adequate respirator.

#### Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: liquid  
 Colour: white / tinted  
 Odour: mild

#### Test method

pH-Value: 11 ISO 4316

#### Changes in the physical state

Melting point: No data available.  
 Initial boiling point and boiling range: No data available.  
 Sublimation point: No data available.  
 Softening point: No data available.  
 Pour point: No data available.  
 Flash point: not applicable

#### Explosive properties

No data available.

Lower explosion limits: No data available.  
 Upper explosion limits: No data available.

#### Auto-ignition temperature

Solid: No data available.  
 Decomposition temperature: No data available.  
 Vapour pressure: No data available.  
 Density: approx. 1,50 g/cm<sup>3</sup>  
 Water solubility: No data available.

#### Solubility in other solvents

No data available.

Partition coefficient: No data available.  
 Viscosity / dynamic: < 500 mPa·s  
 Viscosity / kinematic: No data available.  
 Vapour density: No data available.

### 9.2. Other information

Solid content: 50 %

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

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Stable under proper storage and handling.

#### **10.3. Possibility of hazardous reactions**

No dangerous reactions occur under normal storage conditions and in normal use. Does not polymerize.

#### **10.4. Conditions to avoid**

None under normal use.

#### **10.5. Incompatible materials**

strong oxidizers; strong acids

#### **10.6. Hazardous decomposition products**

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### **11.1. Information on toxicological effects**

#### **Toxicokinetics, metabolism and distribution**

No data available.

#### **Acute toxicity**

No data is available on the product itself.

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
13463-67-7	Titanium oxide				
	oral	LD50	>5000 mg/kg	rat	OECD 425
	dermal	LD50	>5000 mg/kg	rabbit	
	inhalative (4 h) aerosol	LC50	>6,8 mg/l	rat	
1317-65-3	Calcium carbonate				
	oral	LD50	> 5000 mg/kg	rat	

#### **Irritation and corrosivity**

May cause eye/skin irritation.

#### **Sensitising effects**

No data available.

#### **STOT-single exposure**

No data available.

#### **Severe effects after repeated or prolonged exposure**

No data available.

#### **Carcinogenic/mutagenic/toxic effects for reproduction**

No data available.

#### **Aspiration hazard**

No data available.

#### **Specific effects in experiment on an animal**

No data available.

## SECTION 12: Ecological information

### **12.1. Toxicity**

No data is available on the product itself.

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CAS No	Chemical name					
	Aquatic toxicity	Method	Dose	[h]   [d]	Species	Source
13463-67-7	Titanium oxide					
	Acute fish toxicity	LC50	>1000 mg/l	96 h	Pimephales promelas	
	Acute algae toxicity	ErC50	16 mg/l		Pseudokirchneriella subcapitata	
	Acute crustacea toxicity	EC50	>100 mg/l	48 h	Daphnia magna	OECD 202
1317-65-3	Calcium carbonate					
	Acute fish toxicity	LC50	>10000 mg/l	96 h	Rainbow trout (Oncorhynchus mykiss)	
	Acute algae toxicity	ErC50	>200 mg/l	72 h	Desmodesmus subspicatus	
	Acute crustacea toxicity	EC50	>1000 mg/l	48 h	Daphnia magna	

#### **12.2. Persistence and degradability**

No data available.

#### **12.3. Bioaccumulative potential**

No data available.

#### **12.4. Mobility in soil**

No data available.

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

No data available.

#### **12.6. Other adverse effects**

No data available.

#### **Further information**

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

### SECTION 13: Disposal considerations

#### **13.1. Waste treatment methods**

##### **Advice on disposal**

Disposal in accordance with the official regulations.

Do not flush into surface water or sanitary sewer system. Offer surplus and non-recyclable solutions to a licensed disposal company.

##### **Waste disposal number of waste from residues/unused products**

080112 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish other than those mentioned in 08 01 11

##### **Waste disposal number of used product**

080112 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish other than those mentioned in 08 01 11

##### **Contaminated packaging**

Packaging can be sent for recycling after being emptied and cleaned. If recycling is not practicable, dispose of in compliance with the official regulations and the Environmental Protection (Duty of Care) Regulations 1991.

### SECTION 14: Transport information

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#### Land transport (ADR/RID)

<b><u>14.1. UN number:</u></b>	not regulated
<b><u>14.2. UN proper shipping name:</u></b>	not regulated
<b><u>14.3. Transport hazard class(es):</u></b>	not regulated
<b><u>14.4. Packing group:</u></b>	not regulated
Hazard label:	n.d.a.

Classification code:	n.d.a.
Special Provisions:	n.d.a.
Limited quantity:	n.d.a.
Transport category:	n.d.a.
Hazard No:	-
Tunnel restriction code:	n.d.a.

#### Other applicable information (land transport)

Not classified as dangerous regarding transport regulations.

#### Inland waterways transport (ADN)

<b><u>14.1. UN number:</u></b>	not regulated
<b><u>14.2. UN proper shipping name:</u></b>	not regulated
<b><u>14.3. Transport hazard class(es):</u></b>	not regulated
<b><u>14.4. Packing group:</u></b>	not regulated
Hazard label:	n.d.a.

Classification code:	n.d.a.
Special Provisions:	n.d.a.
Limited quantity:	n.d.a.

#### Other applicable information (inland waterways transport)

Not classified as dangerous regarding transport regulations.

#### Marine transport (IMDG)

<b><u>14.1. UN number:</u></b>	not regulated
<b><u>14.2. UN proper shipping name:</u></b>	not regulated
<b><u>14.3. Transport hazard class(es):</u></b>	not regulated
<b><u>14.4. Packing group:</u></b>	n.d.a.
Hazard label:	n.d.a.

Marine pollutant:	n.d.a.
Special Provisions:	n.d.a.
Limited quantity:	n.d.a.
EmS:	n.d.a.

#### Other applicable information (marine transport)

Not classified as dangerous regarding transport regulations.



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**Air transport (ICAO)**

<b>14.1. UN number:</b>	not restricted
<b>14.2. UN proper shipping name:</b>	not restricted
<b>14.3. Transport hazard class(es):</b>	not restricted
<b>14.4. Packing group:</b>	n.d.a.
Hazard label:	n.d.a.

Special Provisions:	n.d.a.
Limited quantity Passenger:	n.d.a.
IATA-packing instructions - Passenger:	n.d.a.
IATA-max. quantity - Passenger:	n.d.a.
IATA-packing instructions - Cargo:	n.d.a.
IATA-max. quantity - Cargo:	n.d.a.

**Other applicable information (air transport)**

Not classified as dangerous regarding transport regulations.

Danger releasing substance:	n.d.a.
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**14.6. Special precautions for user**

not applicable

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not applicable

**Other applicable information**

None.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information**

2004/42/EC (VOC):	The EU limit value for this product (product category: II. A a, Wb) in ready to use form is max 30 g/litre of VOC. The VOC content of this product in ready to use form is 0 g/l
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**Additional information**

No Substances of Very High Concern (SVHC) according REACH Article 57.

**National regulatory information**

Water contaminating class (D):	1 - slightly water contaminating
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**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Abbreviations and acronyms**

n.a. = not applicable  
n.d. = not determined  
n.d.a. = no data available

**Relevant H- and EUH-phrases (Number and full text)**

EUH210	Safety data sheet available on request.
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**Further Information**

The information is based on present levels of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

The product is to be used exclusively for the applications named in the technical data sheet or in the processing instructions.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*