

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## Glasur 8283 Zinkkristall

Revision date: 02.09.2025

Product code: 8283

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

#### 1.1. Product identifier

Glasur 8283 Zinkkristall

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

##### Use of the substance/mixture

Manufacture of ceramic coatings suited for firing ceramics.

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

Company name:	TerraColor GmbH	
Street:	Manderscheidstr. 90	
Place:	D-45141 Essen	
Telephone:	+49 (0) 201 293300	Telefax: +49 (0) 201 2944389
E-mail:	info@terracolor.de	
Contact person:	Dr. Monika Szurman	
E-mail:	sdb@terracolor.de	
Internet:	www.terracolor.de	

**1.4. Emergency telephone number:** +49 (0) 201 293300

### SECTION 2: Hazards identification

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

##### Regulation (EC) No 1272/2008

STOT RE 2; H373  
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### Regulation (EC) No 1272/2008

##### Hazard components for labelling

Quartz (fine fraction)  
zinc oxide

**Signal word:** Warning

##### Pictograms:



##### Hazard statements

H373 May cause damage to organs (lung) through prolonged or repeated exposure.  
H411 Toxic to aquatic life with long lasting effects.

##### Precautionary statements

P260 Do not breathe dust.  
P273 Avoid release to the environment.  
P284 Wear respiratory protection.  
P391 Collect spillage.  
P501 Dispose of contents/container to according to local regulations to a treatment center.

#### 2.3. Other hazards

The mixture does not contain substances classified as PBT.  
The mixture does not contain substances classified as vPvB.  
The mixture does not contain any endocrine disrupting properties substances.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of mineral oxides, metal oxides and inorganic pigments.

##### Relevant ingredients

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
1314-13-2	zinc oxide			< 25 %
	215-222-5	030-013-00-7		
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			
14808-60-7	Quartz (fine fraction)			< 5 %
	238-878-4			
	STOT RE 1; H372			
12069-69-1	copper(II) carbonate - copper(II) hydroxide (1:1)			< 2,5 %
	235-113-6	029-020-00-8		
	Acute Tox. 4, Acute Tox. 4, Eye Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H332 H302 H319 H400 H410			

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity	
	Specific Conc. Limits, M-factors and ATE			
1314-13-2	215-222-5	zinc oxide	< 25 %	
	oral: LD50 = > 5000 mg/kg			
12069-69-1	235-113-6	copper(II) carbonate - copper(II) hydroxide (1:1)	< 2,5 %	
	inhalation: ATE 1,2 mg/l (dusts or mists); oral: ATE 500 mg/kg Aquatic Acute 1; H400: M=10 Aquatic Chronic 1; H410: M=10			

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Remove contaminated or saturated clothing.

##### After inhalation

Take affected persons out into the fresh air.

##### After contact with skin

Precautionally wash off with soap and water.

##### After contact with eyes

In case of contact with eyes rinse thoroughly with water.

##### After ingestion

In the event of symptoms refer for medical treatment.

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

This product contains quartz (fine fraction). Depending on the type of handling and use (e.g. grinding, drying), airborne respirable crystalline silica may be generated. Prolonged and/or massive inhalation of respirable crystalline silica dust may cause lung fibrosis, commonly referred to as silicosis.

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

In all cases of doubt, or when symptoms persist, seek medical advice.

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### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### **Suitable extinguishing media**

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Extinguishing powder./Carbon dioxide (CO<sub>2</sub>).

##### **Unsuitable extinguishing media**

Full water jet

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

none known

#### 5.3. Advice for firefighters

Employ protective equipment commonly used in the event of fire.

##### **Additional information**

Dispose of waste according to applicable legislation. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### SECTION 6: Accidental release measures

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

##### **General advice**

Wear personal protection equipment. Provide adequate ventilation. Avoid dust formation.

#### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Avoid release to the environment.

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

##### **For containment**

Collect spillage.

##### **For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

##### **Other information**

Take up dust-free and set down dust-free. Collect in closed and suitable containers for disposal.

#### 6.4. Reference to other sections

Personal protection equipment: see section 8

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

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

Avoid production of dust. Do not breathe dust. Open windows to ensure natural ventilation.

When using do not eat, drink or smoke.

Avoid release to the environment.

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

Avoid generation of dust.

##### **Advice on general occupational hygiene**

If local exhaust ventilation is not possible or not sufficient, the entire working area should be ventilated by technical means.

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

Keep container tightly closed.

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

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**Requirements for storage rooms and vessels**

Keep container tightly closed.  
Keep out of the reach of children.

**Hints on joint storage**

No special restrictions on substances.

**Further information on storage conditions**

Product is water-pollutive. Observe the national and local regulations concerning handling and storage.

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

No data available

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Additional advice on limit values**

Observe general dust limit MAK (A = respirable fraction): 1,25 mg/m<sup>3</sup>.

**8.2. Exposure controls**

**Appropriate engineering controls**

Minimise airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organisational measures, e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

If necessary: Wear tightly sealed safety glasses.

**Hand protection**

Wear protective gloves made of the following materials: NBR (Nitrile rubber).

**Skin protection**

Wear personal protection equipment.

**Respiratory protection**

In case of prolonged exposure to airborne dust concentrations, wear a respiratory protective equipment that complies with the requirements of European or national legislation. The use of half or full face masks with filters against particles of category 2 or 3 (FP2 - FP3) is recommended. See EN 143: 2000 - Respiratory protective devices. Particle filters.

**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties**

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

Physical state:	Powder	
Colour:	dark pink	
Odour:	odourless	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not determined
Flash point:		not applicable
Decomposition temperature:		not available
Water solubility:		not determined

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Density:

not determined

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

It does not contain chemical groups associated with explosive properties.

#### Further Information

no data available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

no data available

### 10.2. Chemical stability

No decomposition if stored normally.

### 10.3. Possibility of hazardous reactions

none known

### 10.4. Conditions to avoid

No dangerous reaction known under conditions of normal use.

### 10.5. Incompatible materials

none known

### 10.6. Hazardous decomposition products

none known

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Based on available data, the classification criteria are not met.

Acute, oral toxicity

frits, chemicals; CAS-Nr.: 65997-18-4; EG-Nr.: 266-047-6; LD50: > 2.000,00 mg/kg (Species: Rat)

#### ATEmix calculated

ATE (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l; ATE (inhalation gas) > 20000 ppm

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
1314-13-2	zinc oxide				
	oral	LD50 > 5000 mg/kg	Rat	IUCLID	
12069-69-1	copper(II) carbonate - copper(II) hydroxide (1:1)				
	oral	ATE 500 mg/kg			
	inhalation dust/mist	ATE 1,2 mg/l			

#### Irritation and corrosivity

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Serious eye damage/eye irritation: Based on available data, the classification criteria are not met.

Powder can cause localised skin irritation in folds of the skin or under tight clothing.

#### Sensitising effects

Based on available data, the classification criteria are not met.

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

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Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met.

Reproductive toxicity: Based on available data, the classification criteria are not met.

### STOT-single exposure

Based on available data, the classification criteria are not met.

### STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure. (Quartz (fine fraction))

This product contains quartz (fine fraction) as an impurity and therefore is classified as STOT RE2 according to criteria defined in the Regulation EC 1272/2008 Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica. In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However it pointed out that not all industrial circumstances, nor all crystalline silica types, were to be incriminated. (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore preventing the onset of silicosis will also reduce the cancer risk (SCOEL SUM Doc 94-final, June 2003). So there is a body of evidence supporting the fact that increased cancer risk would be limited to people already suffering from silicosis. Worker protection against silicosis should be assured by respecting the existing regulatory occupational exposure limits and implementing additional risk management measures where required (see section 16 below).

### Aspiration hazard

Based on available data, the classification criteria are not met.

## 11.2. Information on other hazards

### Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

## SECTION 12: Ecological information

### 12.1. Toxicity

Toxic to aquatic life with long lasting effects.

### 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

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.  
no data available

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

Toxic to aquatic life with long lasting effects.  
Do not allow to enter into surface water or drains.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

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**Disposal recommendations**

Collect in closed and suitable containers for disposal. Prevent penetration into soil, stretches of water and drainage systems.

**Contaminated packaging**

Dispose of as unused product. If there is product residue in the emptied container, follow directions for handling on the container's label.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Classification code: M7  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 kg  
 Excepted quantity: E1  
 Transport category: 3  
 Hazard No: 90  
 Tunnel restriction code: -

**Inland waterways transport (ADN)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc oxide)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Classification code: M7  
 Special Provisions: 274 335 375 601  
 Limited quantity: 5 kg  
 Excepted quantity: E1

**Marine transport (IMDG)**

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
 Hazard label: 9



Special Provisions: 274, 335, 966, 967, 969  
 Limited quantity: 5 kg

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Excepted quantity: E1  
EmS: F-A, S-F

### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 3077  
**14.2. UN proper shipping name:** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Zinc Oxide)  
**14.3. Transport hazard class(es):** 9  
**14.4. Packing group:** III  
Hazard label: 9



Special Provisions: A97 A158 A179 A197  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y956  
Excepted quantity: E1  
IATA-packing instructions - Passenger: 956  
IATA-max. quantity - Passenger: 400 kg  
IATA-packing instructions - Cargo: 956  
IATA-max. quantity - Cargo: 400 kg

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII):  
Entry 3, Entry 75

Directive 2004/42/EC on VOC in  
paints and varnishes: 0

Information according to Directive  
2012/18/EU (SEVESO III): E2 Hazardous to the Aquatic Environment

#### Additional information

REACH - List of substances subject to authorization (Annex XIV): Not prohibited and/or restricted.

Regulation (EC) No. 649/2012 of the European Parliament and of the Council on the export and import of dangerous chemicals: not applicable.

#### National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

## SECTION 16: Other information

### Changes

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such

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material used in combination with any other materials or in any process, unless specified in the text.

### Abbreviations and acronyms

Acute Tox: Acute toxicity

Eye Irrit: Eye irritation

STOT RE: Specific target organ toxicity - repeated exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

### Relevant H and EUH statements (number and full text)

H302 Harmful if swallowed.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H372 Causes damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs (lung) through prolonged or repeated exposure.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

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