

# Safety Data Sheet

according to UK REACH Regulation



## Glaze 8235 Kupferpatina

Revision date: 15.07.2025

Product code: 8235

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

#### 1.1. Product identifier

Glaze 8235 Kupferpatina

#### 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

##### GB CLP Regulation

Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard statements

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P501 Dispose of contents/container to according to local regulations to a treatment center.  
P273 Avoid release to the environment.

#### 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.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Mixture of frits (silicate glasses), mineral oxides, metal oxides and inorganic pigments.

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### Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
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		
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. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

#### After ingestion

Rinse mouth immediately and drink plenty of water. In the event of symptoms refer for medical treatment.

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

no data available

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

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

## 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

none known

### 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

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

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Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities.

### 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.

#### 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 mechanically, placing in appropriate containers for disposal.

#### 6.4. Reference to other sections

Treat the recovered material as prescribed in the section on waste disposal.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

##### Advice on safe handling

When using do not eat, drink or smoke. Wash hands before breaks and after work. Do not leave children unattended while using the material. Open windows to ensure natural ventilation.

##### 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.

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

##### 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.

#### 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

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

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

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### Eye/face protection

If necessary: Wear tightly sealed safety glasses.

### Hand protection

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

### 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:	bright green	
Odour:	odourless	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability:		not applicable
Flash point:		not applicable
Decomposition temperature:		not available
Water solubility:		not determined
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

no data available

### 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 GB CLP Regulation

#### 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)

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### 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
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

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

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

### 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

Harmful 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 UK REACH.

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

no data available

### Further information

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Do not allow to enter into surface water or drains.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

##### Disposal recommendations

Prevent penetration into 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

#### Other applicable information

Not a hazardous material with respect to transportation regulations.

### 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 0  
paints and varnishes:

##### Additional information

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

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on controlling major-accident hazards involving dangerous substances: not applicable.

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): 1 - slightly 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 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

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.

H400 Very toxic to aquatic life.

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H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

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