

Glaze 9652 Türkis

Revision date: 01.03.2018

Product code: 9652

Page 1 of 6

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

1.1. Product identifier

Glaze 9652 Türkis

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
e-mail: info@terracolor.de
Contact person: Dr. Monika Szurman
e-mail: sdb@terracolor.de
Internet: www.terracolor.de

Telefax: +49 (0) 201 2944389

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

Hazard categories:

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

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

No information available.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

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

Glaze 9652 Türkis

Revision date: 01.03.2018

Product code: 9652

Page 2 of 6

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
12069-69-1	Copper(II)Carbonate--Copper(II)hydroxide (1:1)			< 2,5 %
	235-113-6		01-2119513711-50	
	Acute Tox. 4, Aquatic Acute 1; H302 H400			
554-13-2	Lithiumcarbonate			< 10 %
	209-062-5			
	Acute Tox. 4, Eye Irrit. 2A; H302 H319			

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

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

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.

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.
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**

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

Glaze 9652 Türkis

Revision date: 01.03.2018

Product code: 9652

Page 3 of 6

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

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.

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****DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
554-13-2	Lithiumcarbonate			
Worker DNEL, acute		dermal	systemic	100 mg/kg bw/day
Worker DNEL, acute		inhalation	systemic	30 mg/m³
Worker DNEL, long-term		dermal	systemic	64,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	10 mg/m³
Consumer DNEL, acute		oral	systemic	19,23 mg/kg bw/day
Consumer DNEL, acute		dermal	systemic	50 mg/kg bw/day
Consumer DNEL, acute		inhalation	systemic	28,92 mg/m³
Consumer DNEL, long-term		dermal	systemic	64,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	9,64 mg/m³
Consumer DNEL, long-term		oral	systemic	6,43 mg/kg bw/day

Glaze 9652 Türkis

Revision date: 01.03.2018

Product code: 9652

Page 4 of 6

PNEC values

CAS No	Substance	
Environmental compartment		Value
554-13-2	Lithiumcarbonate	
Freshwater		9 mg/l
Marine water		0,9 mg/l
Freshwater sediment		35,2 mg/l
Marine sediment		3,52 mg/l
Micro-organisms in sewage treatment plants (STP)		122,2 mg/l
Soil		1,76 mg/kg

Additional advice on limit values

Observe general dust limit MAK (A = respirable fraction): 1,25 mg/m³.

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.

Protective and hygiene measures

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

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

Changes in the physical state

Melting point:	not determined
Boiling point or initial boiling point and boiling range:	not determined
Flash point:	not applicable
Density:	not determined
Water solubility:	not determined

9.2. Other information

no data available

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

no data available

10.2. Chemical stability

Safety Data Sheet



according to Regulation (EC) No 1907/2006

Glaze 9652 Türkis

Revision date: 01.03.2018

Product code: 9652

Page 5 of 6

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 toxicological effects

Acute toxicity

Acute, oral toxicity

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

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			
554-13-2	Lithiumcarbonate				
	oral	LD50 525,00 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Ratte		
	inhalation (4 h) aerosol	LC50 2 mg/l	Rat		

Irritation and corrosivity

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

SECTION 12: Ecological information

12.1. Toxicity

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

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
554-13-2	Lithiumcarbonate					
	Acute fish toxicity	LC50 30,3 mg/l	96 h	Oncorhynchus mykiss		
	Acute crustacea toxicity	EC50 33,2 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC 50 mg/l	72 d	Pseudokirchneriella subcapitata		
	Crustacea toxicity	NOEC 3,5 mg/l	21 d	Daphnia magna		

12.2. Persistence and degradability

no data available

12.3. Bioaccumulative potential

no data available

Glaze 9652 Türkis

Revision date: 01.03.2018

Product code: 9652

Page 6 of 6

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

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

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

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.

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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