

Safety Data Sheet

according to Regulation (EU) 2020/878



Glaze 8243A Iskia

Revision date: 06.10.2023

Product code: 8243A

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

1.1. Product identifier

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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 Acute 1; H400
Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

copper(II) oxide

Signal word: Warning

Pictograms:



Hazard statements

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.
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.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Chemical characterization

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

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
554-13-2	Lithiumcarbonate			< 5 %
	209-062-5			
	Acute Tox. 4, Eye Irrit. 2A; H302 H319			
1317-38-0	copper(II) oxide			< 2,5 %
	215-269-1	029-016-00-6		
	Aquatic Acute 1, Aquatic Chronic 1; 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	
554-13-2	209-062-5	Lithiumcarbonate	< 5 % %
		inhalation: LC50 = 2 mg/l (dusts or mists); dermal: LD50 = > 2000 mg/kg; oral: LD50 = 525,00 mg/kg	
1317-38-0	215-269-1	copper(II) oxide	< 2,5 % %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2500 mg/kg Aquatic Acute 1; H400: M=100 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

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 (CO₂).

Unsuitable extinguishing media

Full water jet

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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

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 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

Wear personal protection equipment. When using do not eat, drink or smoke. Avoid contact with skin.

Further information on handling

Open windows to ensure natural ventilation.

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.

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

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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL/DMEL values

CAS No	Substance	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/m ³
Worker DNEL, long-term		dermal	systemic	64,3 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	10 mg/m ³
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/m ³
Consumer DNEL, long-term		dermal	systemic	64,3 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	9,64 mg/m ³
Consumer DNEL, long-term		oral	systemic	6,43 mg/kg bw/day
1317-38-0	copper(II) oxide			
Worker DNEL, long-term		dermal	systemic	137000 mg/kg bw/day

PNEC values

CAS No	Substance	Value
554-13-2	Lithiumcarbonate	
Environmental compartment		
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
1317-38-0	copper(II) oxide	
Freshwater		0,0078 mg/l
Marine water		0,0052 mg/l
Freshwater sediment		0,087 mg/l
Marine sediment		0,676 mg/l
Soil		0,0065 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

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technical means.

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.

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:	red brown	
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
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.

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended storage conditions.

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.

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
554-13-2	Lithiumcarbonate				
	oral	LD50 mg/kg	525,00	Rat	
	dermal	LD50 mg/kg	> 2000	Ratte	
	inhalation (4 h) dust/mist	LC50	2 mg/l	Rat	
1317-38-0	copper(II) oxide				
	oral	LD50 mg/kg	> 2500	Rat	
	dermal	LD50 mg/kg	> 2000	Rat	

Irritation and corrosivity

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

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

Very toxic to aquatic life.
Toxic to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
554-13-2	Lithiumcarbonate					
	Acute fish toxicity	LC50 mg/l	30,3	96 h	Oncorhynchus mykiss	
	Acute crustacea toxicity	EC50 mg/l	33,2	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

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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.

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

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.
(copper(II) 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.
(copper(II) oxide)

14.3. Transport hazard class(es):

9

14.4. Packing group:

III

Hazard label:

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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. (Copper(II) 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
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. (Copper(II) 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

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Restrictions on use (REACH, annex XVII):

Entry 3

Information according to 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): 3 - highly 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.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic 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.)