

Safety Data Sheet

according to Regulation (EC) No 1907/2006



Titanium

Print date: 29.11.2017

5708

Page 1 of 4

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

1.1. Product identifier

5708 Titanium

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, B. + M. Szurman
Street: Manderscheidtstr. 90
Place: D-45141 Essen
Telephone: +49 (0) 201 293300
Telefax: +49 (0) 201 2944389
e-mail: info@terra-color.de
Contact person: Dr. Monika Szurman
e-mail: sdb@terra-color.de
Internet: www.terra-color.de

1.4. Emergency telephone number:

+49 (0) 201 293300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The preparation is not dangerous in the sense of Directive 1999/45/EC.

This mixture is classified as not hazardous according to Regulation (EC) 1272/2008 [GHS].

2.2. Label elements

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization

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

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification	
Index No	GHS classification	
REACH No		
215-202-6	manganese dioxide	< 10 %
1313-13-9	Xn - Harmful R20/22	
025-001-00-3	Acute Tox. 4, Acute Tox. 4; H332 H302	

Full text of R and H phrases: 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.

Safety Data Sheet

according to Regulation (EC) No 1907/2006



Titanium

Print date: 29.11.2017

5708

Page 2 of 4

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.

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 media which must not be used for safety reasons

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.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment. Provide adequate ventilation. Avoid generation of dust.

6.2. Environmental precautions

Prevent penetration into stretches of water and drainage systems.

6.3. Methods and material for containment and cleaning up

Pick up mechanically and collect in a suitable container. Avoid formation of dust.

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.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

No special storage conditions are necessary.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
-	Manganese: its inorganic compounds (as Mn)	-	0.5		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

Additional advice on limit values

Observe general dust limit MAK (A = respirable fraction): 3 mg/m³.

8.2. Exposure controls

Safety Data Sheet

according to Regulation (EC) No 1907/2006



Titanium

Print date: 29.11.2017

5708

Page 3 of 4

Protective and hygiene measures

Do not breathe dust. Wash hands before breaks and after work.

Hand protection

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

Eye protection

Dust protection goggles.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Powder
Colour: brown
Odour: odourless

Test method

Changes in the physical state

Melting point: No data available
Flash point: not applicable
Water solubility: not determined

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

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 toxicological effects

Acute toxicity

Acute, oral toxicity
frits, chemicals: LD50: > 2.000,00 mg/kg (Species: Rat)

CAS No	Chemical name				
	Exposure routes	Method	Dose	Species	Source
1313-13-9	manganese dioxide				
	oral	LD50 mg/kg	> 3480	Rat	GESTIS

Irritation and corrosivity

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

Safety Data Sheet

according to Regulation (EC) No 1907/2006



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5708

Page 4 of 4

Sensitising effects

none known

SECTION 12: Ecological information

12.1. Toxicity

Toxicity to fish

frits, chemicals: LC50 Fish: > 1.000,00 mg/l / 96 h

Toxicity to daphnia

frits, chemicals: EC50 Daphnia: > 100,00 mg/l / 48 h

Toxicity to algae

frits, chemicals: IC50 algae: > 1.000,00 mg/l / 72 h

12.2. Persistence and degradability

Poorly watersoluble, inorganic product. Can be mechanically precipitated to a large extent in biological sewage plants.

12.3. Bioaccumulative potential

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

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

National regulatory information

Water contaminating class (D): - - not water contaminating

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.

Full text of R phrases referred to under Sections 2 and 3

20/22 Harmful by inhalation and if swallowed.

Full text of H statements referred to under Sections 2 and 3

H302 Harmful if swallowed.

H332 Harmful if inhaled.

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