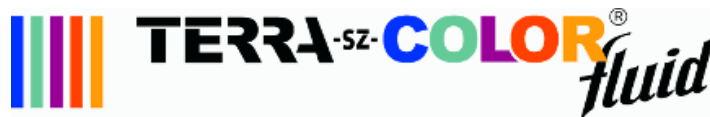


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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Terra-sz-Color Brush-on-glaze

Further trade names

FE 5116, 5602, 5708, 5717, 5725

FS 6009, 6016

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 fluid, B. + M. Szurman
Street: Manderscheidtstr. 90
Place: D-45141 Essen
Telephone: +49 (0) 201 293300
e-mail: info@terracolor-fluid.de
Contact person: Dr. Monika Szurman

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

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 and inorganic pigments in aqueous suspension on hydrocolloidic basis.

Hazardous components

EC No	Chemical name	Quantity
CAS No	Classification according to Directive 67/548/EEC	
Index No	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
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-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

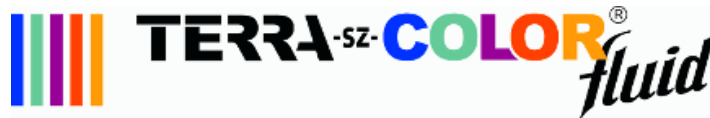
4.1. Description of first aid measures

General information

Remove contaminated or saturated clothing.

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After inhalation

no data available

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

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.

6.2. Environmental precautions

Prevent penetration into stretches of water and drainage systems.

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.

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. Protect from frost.

7.3. Specific end use(s)

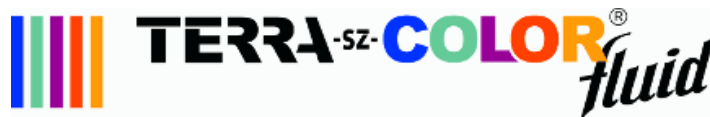
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SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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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

Not applicable, as product is in liquid phase.

8.2. Exposure controls

Occupational exposure 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

Wash hands before breaks and after work. When using do not eat, drink or smoke.

Hand protection

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

Eye protection

If necessary: Wear tightly sealed safety glasses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid / tixotrope
Colour: diverse
Odour: odourless

Test method

pH-Value: 8-10

Changes in the physical state

Flash point: not applicable
Water solubility: dispersible

9.2. Other 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

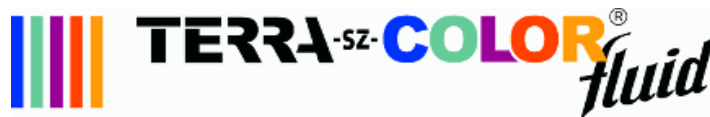
none known

10.6. Hazardous decomposition products

none known

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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

Product may irritate eyes and skin.

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

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

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

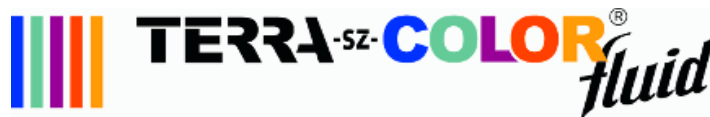
Advice on disposal

Dispose of waste according to applicable legislation.

Waste disposal number of used product

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080203 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of other coatings (including ceramic materials); aqueous suspensions containing ceramic materials

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Completely emptied packages can be recycled.

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): 1 - slightly water contaminating

15.2. Chemical safety assessment

For this mixture a chemical safety assessment has been carried out.

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 R-phrases (Number and full text)

20/22 Harmful by inhalation and if swallowed.

Relevant H- and EUH-phrases (Number and full text)

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.)