

Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



10000 Smalt, standard

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Revised edition: 09.12.2022

Version: 1

Printed: 03.01.2023

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: Smalt, standard

Article No.: 10000

UFI: --

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:
Pigment in artists colors.

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

1.4.2 Poison Center:

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Cat.: 1	
H373	May cause damage to organs through prolonged or repeated exposure.
Cat.: 2	

Possible Environmental Effects:

2.2. Label Elements

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Hazard designation:



GHS08-2

Signal word:

Danger

Hazard designation:

May cause allergy or asthma symptoms or breathing difficulties if
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H334	inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
<i>Safety designation:</i>	
P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P342+P311	If experiencing respiratory symptoms: Call a poison center or physician.
P501	Dispose of contents/ container according to regional, national and international regulations.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Cobalt potassium silicate glass. Pigment Blue 32, C.I. 77365

Information on Components / Hazardous Ingredients:

Quartz, Silica (STOT RE1, H372)	65 - 70 %	CAS-Nr: 14808-60-7 EINECS-Nr: 238-878-4 EC-Nr:
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Tricobalt tetraoxide (H334-412); REACH Reg. No. 01-2119517310-56-0000	5 - 10 %	CAS-Nr: 1308-06-1 EINECS-Nr: 215-157-2 EC-Nr:
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Cobalt oxide (H302-318-332-410; M=10); REACH Reg. No. 01-2119513794-36-xxxx	< 0.1 %	CAS-Nr: 1307-96-6 EINECS-Nr: 215-154-6 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Take affected persons out into the fresh air.
Give artificial respiration in case breathing is not regular or if it has stopped.

After inhalation:

Supply fresh air. Consult physician if symptoms persist.

After skin contact:

Wash off with plenty of water and soap.
Remove contaminated clothing immediately.

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Get medical attention.

After eye contact:

Rinse open eyes with plenty of water. In case of discomfort seek medical help.

After ingestion:

Immediately get medical help.

Rinse mouth with plenty of water.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

Non-flammable.

5.3. Advice for Firefighters

Protective equipment:

Wear self-contained respiratory protective device.

Further information:

Reduce escaping gases/fumes/mist with water spray.

Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Ensure adequate ventilation.

Do not inhale dust. Avoid formation of dust.

Avoid contact with skin, eyes and clothing.

Wear protective clothing.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soil, drains and surface waters.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

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Take up mechanically and collect in suitable containers for disposal.

6.4. Reference to other Sections

See Section 13 for information on disposal.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

Avoid formation of dust. Do not inhale dust.

Hygienic measures:

Do not inhale dust. Wash hands before breaks and at the end of work.

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Store in a cool and dry place.

Requirements for storage areas and containers:

Store product in closed containers.

Information on fire and explosion protection:

No special measures necessary.

Storage class:

10-13 (TRSG 510)

Further Information:

7.3. Specific End Use(s)

Further information:

No further information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TLV: 1.25 mg/m³ air-borne fraction (general dust limit)

TLV: 10 mg/m³ inhalable fraction (general dust limit)

Quartz, (CAS 14808-60-7), TWA (TRGS 900): 0.10 A mg/m³ (8h; Y; DFG)

Parameters to be controlled:

Quartz (airborne crystalline silica); TLV (FR): 0.05 mg/m³ (8h)

Derived No-Effect Level (DNEL):

Tricobalt tetraoxide:

0.0545 mg/m³ (worker, inhalation, long-term exposition - systemic effects)

0.0086 mg/m³ (consumer, inhalation, long-term exposition - systemic effects)

0.0192 mg/kg bw/d (consumer, swallowing, long-term exposition -

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systemic effects)

Predicted No-Effect Concentration (PNEC):

Tricobalt tetraoxide:

Fresh water: 0.0006 mg/l

Sea water: 0.00236 mg/l

Fresh water sediment / Sea water sediment: 9.5 mg/kg

Soil: 10.9 mg/l

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Provide adequate ventilation/exhaust system.

Personal Protection

General protective measures:

*Do not inhale dust. Do not eat, drink or smoke while working.
Wash hands before breaks and at the end of work.*

Respiratory protection:

*Respiratory equipment required in case of insufficient ventilation,
filter type P2.*

Hand protection:

Protective gloves (EN 374)

Protective glove material:

*Recommended: Protective index 6, corresponding > 480 min. of
permeation time according to EN 374.*

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

No special measures required.

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: blue

Odor: none

*Odor threshold:
no information available*

*pH-Value:
not determined*

*Melting temperature:
not available*

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Boiling temperature:

not applicable

Flash point:

not applicable

Evaporation rate:

This product is a non-volatile solid.

Flammability (solid, gas):

not flammable

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

not applicable

Vapor density:

This product is a non-volatile solid.

Density:

ca. 3.0 g/cm³

Solubility in water:

insoluble

*Coefficient of variation (n-
Octanol/Water):*

no information available

Auto-ignition temperature:

not applicable

Decomposition temperature:

not determined

Viscosity, dynamic:

not applicable

Explosive properties:

not applicable

Oxidizing properties:

no information available

Bulk density:

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

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Other information:

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Unknown.

10.4. Conditions to Avoid

Conditions to avoid:

No information available.

Thermal decomposition:

10.5. Incompatible Materials

Oxidizing agents.

10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

No toxicity expected.

Acute Toxicity

LD50, oral:

*Tricobalt tetraoxide: LD50: > 5000 mg/kg (Ratte)
Cobalt oxide: 159 mg/kg (rat; OECD 401)*

LD50, dermal:

*Tricobalt tetraoxide: LD50: > 2000 mg/kg
Cobalt oxide: > 2000 mg/kg (rat; OECD 402)*

LC50, inhalation:

*Tricobalt tetraoxide: LC50: > 5.06 mg/l (4h, Ratte)
Cobalt oxide: 0.06 mg/l (4h, aerosol, rat; OECD 436)*

Primary effects

Irritant effect on skin:

No irritant effect known.

Irritant effect on eyes:

May irritate eyes.

Inhalation:

No irritant effect known.

Ingestion:

No information available

Sensitization:

Tricobalt tetraoxide: May cause allergy or asthma symptoms or

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breathing difficulties if inhaled.

Mutagenicity:

No mutagenic effects known.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

No relevant data found.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Single exposure: no information available.

Repeated exposure: may cause damage to organs through prolonged or repeated exposure (quartz)

Aspiration hazard

No risk of aspiration.

11.2. Information on other Hazards

No further information available.

12. Ecological Information

12.1. Aquatic Toxicity

No toxicity expected.

Fish toxicity:

Tricobalt tetraoxide: LC50: 1.5 mg/l (96h, fish); NOEC: 0.3514 (34d, fish)

Daphnia toxicity:

Tricobalt tetraoxide: EC50: 2.32 mg/l (96h); NOEC: 0.206 (5d)

Bacteria toxicity:

No data available.

Algae toxicity:

Tricobalt tetraoxide: ErC50: 0.144 mg/l (96h); NOEC: 0.0049 mg/l (7d)

12.2. Persistency and Degradability

Methods for the evaluation of the biological degradability are not applicable for inorganic substances.

12.3. Bioaccumulation

No information available.

12.4. Mobility

Product is not water soluble.

12.5. Results of PBT- und vPvP Assessment

This product is neither a PBT or vPvB substance nor does it contain a PBT or vPvB substance.

12.6. Endocrine Disrupting Properties

Not listed.

12.7. Other Adverse Effects

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Water hazard class:

1 (German Regulation) (Assessment by list): slightly hazardous.

Behaviour in sewage systems:

Further ecological effects:

Do not let product enter waterways or sewage system.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

Dispose of according to official national and local regulations.

European Waste Code (EWC):

Uncleaned packaging:

Dispose of according to official local regulations.

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

14.2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR / DOT (US) (land transportation).

IMDG/IATA:

Not hazardous goods

14.3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

not applicable

Hazard no.:

EmS No.:

IATA Class:

not applicable

Hazard no.:

14.4. Packaging Group

ADR/RID:

not applicable

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IMDG:

IATA:

14. 5. Environmental Hazards

Not classified as environmentally hazardous.

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Maritime Transport in Bulk according to IMO Instruments

not applicable

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water (according to the German Regulation AwSV using the mixing rule)

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 75

Technical instructions on air quality:

5.2.1. Total dust, including fine dust at 0.2 < m ≤ 0.4 kg/h: conc. 20 mg/m³, resp. at m ≤ 0.2 kg/h: conc. 0.15 g/m³, resp. at m > 0.4 kg/h: conc. 10 mg/m³

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

15. 3. Further Information

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.