

Safety Data Sheet

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



46280 Buff Titanium

Page 1

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

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

1.1. Product Identifier

Product Name: Buff Titanium

Article No.: 46280

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

Identified uses:

Pigment

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

E-Mail: 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)

This product does not require classification and labelling as hazardous according to CLP/GHS.

Possible Environmental Effects:

2.2. Label Elements

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

This product does not require classification and labelling as hazardous according to CLP/GHS.

Hazard designation:

Not applicable.

Signal word:

Hazard designation:

Safety designation:

P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P273	Avoid release to the environment.
P314	Get medical advice/attention if you feel unwell.
P391	Collect spillage
P402	Store in a dry place. Store in a closed container

Dispose of contents/ container according to regional, national and next page: 2

Safety Data Sheet

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



46280 Buff Titanium

Page 2

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

P501

international regulations.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

Chemical Characterization: Titanium dioxide, TiO₂

Information on Components / Hazardous Ingredients:

Ilmenite (FeTiO ₃); REACH Reg. No. 01-2119556873-27-0000	100 %	CAS-Nr: 98072-94-7 EINECS-Nr: 308-551-1 EC-Nr:
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Silicon dioxide	1.25 %	CAS-Nr: 112926-00-8 EINECS-Nr: 231-545-4 EC-Nr:
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Diiron trioxide (Fe ₂ O ₃); REACH Reg. No. 01-2119457614-35-0009	< 5 %	CAS-Nr: 1309-37-1 EINECS-Nr: 215-168-1 EC-Nr:
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Additional information:

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

Seek medical attention in case of complaints.

After inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing.

After skin contact:

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

Wash contaminated clothing before reuse.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.

Remove contact lens.

After ingestion:

Rinse mouth with water and drink plenty of water.

If symptoms persist consult physician.

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

Symptoms:

Frequent inhalation of dust over a long period of time can cause irritation and coughing.

Skin contact: prolonged contact may cause irritations.

Eye contact: can cause mechanical irritation.

next page: 3

Safety Data Sheet

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



46280 Buff Titanium

Page 3

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

Swallowing: may cause nausea.

Effects:

No further information available.

4. 3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

No further information available.

5. Fire-Fighting Measures

5. 1. Extinguishing Media

Suitable extinguishing media:

Product itself does not burn.

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

Water with full jet.

5. 2. Special Hazards arising from the Substance or Mixture

Special hazards:

No special hazards.

5. 3. Advice for Firefighters

Protective equipment:

Wear suitable protective clothing.

Wear self-contained respiratory protective device.

Further information:

Not combustible.

6. Accidental Release Measures

6. 1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Do not inhale dust.

Wear protective clothing.

Ensure adequate ventilation.

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:

Take up mechanically and collect in suitable containers for disposal. Avoid dust formation.

Rinse with lots of water.

6. 4. Reference to other Sections

For information for safe handling see Section 7.

7. Handling and Storage

7. 1. Precautions for Safe Handling

Instructions on safe handling:

next page: 4

Safety Data Sheet

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



46280 Buff Titanium

Page 4

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

*Avoid formation of dust. Do not inhale dust.
Avoid contact with eyes and skin.*

Hygienic measures:

*Change contaminated clothing. Preventive skin protection recommended. Wash hands after work.
Do not eat or drink during work. Do not smoke.*

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

*Store in tightly sealed containers in a dry room.
Protect product from direct sunlight.*

Requirements for storage areas and containers:

No special measures necessary.

Information on fire and explosion protection:

No information available.

Storage class:

Further Information:

7.3. Specific End Use(s)

Further information:

No information available.

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

TRGS 900

Silicon dioxide, CAS 112926-00-8 (7631-86-9), TWA-Value: 4 mg/m³ (inhalable dust fraction)

Parameters to be controlled:

Iron oxide (CAS 1309-37-1): MAK (AT): 10 mg/m³ (inhalable fraction), 5 mg/m³ (airborne fraction); VME (FR): 5 mg/m³; OEL TWA (BE, PT): 5 mg/m³; MAK (CH): 3 mg/m³; USA NIOSH (TWA): 5 mg/m³, OSHA (TWA): 10 mg/m³

Silicium dioxide (CAS 112926-00-8): MAK (AT, CH, DK): 4 mg/m³ (inhalable fraction); USA NIOSH (TWA): 6 mg/m³, OSHA (TWA): 80 mg/m³, 20 ppm

Derived No-Effect Level (DNEL):

Predicted No-Effect Concentration (PNEC):

Additional Information:

8.2. Exposure Controls

Technical protective measures:

Ensure adequate ventilation, especially in confined areas.

Facilities storing or utilizing this material should be equipped with

next page: 5

Safety Data Sheet

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



46280 Buff Titanium

Page 5

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

an eyewash and shower facility.

Personal Protection

General protective measures:

Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.

Respiratory protection:

Dust mask (particle filter P3; EN 136, 140, 149) .

Hand protection:

Protective gloves (EN 374)

Protective glove material:

Nitrile rubber (480 min, 0.35 mm)

Eye protection:

Safety glasses with protective shields (EN 166).

Body protection:

Protective clothing and shoes.

Environmental precautions:

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form: powder

Color: creme colored

Odor: characteristic

Odor threshold:
No information available.

pH-Value: 6.5 - 7.5 (10 %)

Melting temperature: 1840°C

Boiling temperature: 2500 - 3000°C

Flash point:
not flammable

Evaporation rate:
not applicable

Flammability (solid, gas):
non-combustible

Upper explosion limit:
no information available

Lower explosion limit:
no information available

Vapor pressure:
not applicable

Vapor density:

next page: 6

Safety Data Sheet

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



46280 Buff Titanium

Page 6

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

No information available.

Density: 4.1 g/cm³ (20°C)

Solubility in water: insoluble

Coefficient of variation (n-Octanol/Water):
no information available

Auto-ignition temperature:
No information available.

Decomposition temperature:
No data available.

Viscosity, dynamic:
not available

Explosive properties:
not explosive

Oxidizing properties:
not oxidizing

Bulk density: 400 - 450 kg/m³

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic:

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

No decomposition if used according to specifications.

10.2. Chemical Stability

Stable if used according to specifications.

10.3. Possibility of Hazardous Reactions

Hazardous polymerisation will not occur.

10.4. Conditions to Avoid

Conditions to avoid:

Avoid heat, open fire and other ignition sources.

Thermal decomposition:

No data available.

10.5. Incompatible Materials

No information available.

next page: 7

Safety Data Sheet

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



46280 Buff Titanium

Page 7

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

10.6. Hazardous Decomposition Products

No information available.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Iron(III) oxide (CAS 1309-37-1): >10000 mg/kg (rat)

LD50, dermal:

No information available.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

No irritant effect known.

Irritant effect on eyes:

No irritant effect known.

Inhalation:

No irritant effect known.

Ingestion:

No irritant effect known.

Sensitization:

No sensitizing effects known.

Mutagenicity:

No mutagenic effects known.

Reproductive toxicity:

No relevant data found.

Carcinogenicity:

Product is not cancerogenic.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

Repeated exposure: NOAEL (oral): 3225 mg/kg bw/d (rat, 90 days)

Additional toxicological information:

12. Ecological Information

12.1. Aquatic Toxicity

Not harmful to aquatic organisms.

Fish toxicity:

NOEC: 0.17 mg/l (60d, Salvelinus fontinalis)

next page: 8

Safety Data Sheet

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



46280 Buff Titanium

Page 8

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

Daphnia toxicity:

No information available.

Bacteria toxicity:

No data available.

Algae toxicity:

No information available.

12.2. Persistency and Degradability

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

12.3. Bioaccumulation

Not applicable.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Inorganic substance: does not comply with the criteria for the classification as PBT or vPvB.

12.6. Other Adverse Effects

Water hazard class:

Not hazardous.

Behaviour in sewage systems:

Further ecological effects:

No special effects or hazards known.

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:

Uncontaminated packaging may be recycled.

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 (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14.3. Transport Hazard Classes

ADR Class:

next page: 9

Safety Data Sheet

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



46280 Buff Titanium

Page 9

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

not applicable

Hazard no.:

Classification code:

Tunnel restriction code:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

None

14. 6. Special Precautions for User

Not classified as a dangerous good under transport regulations.

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

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:

0, not hazardous (German Regulation; Self-assessment)

Local regulations on chemical accidents:

Employment restrictions:

The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline are to be observed.

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this product.

EC SVHC-List: This product does not contain a substance in the candidate list for substances of very high concern (REACH Regulation (EC) 1907/2006, Article 57)

15. 3. Further Information

EC. REACH, Annex XIV, Candidate List of Substances of very

next page: 10

Safety Data Sheet

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



46280 Buff Titanium

Page 10

Revised edition: 26.07.2018

Version: 1

Printed: 24.04.2020

High Concern (SVHC): not regulated / not applicable

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.