

# Chemical safety data sheet

## EU regulations (EC) No. 1907/2006 and 1272/2008

Print date 2022.09.29

version number 1

exist 2022.09.26 Review

### 1 Chemical and corporate identification

- **1.1** product identification
- Product name: **Titanium dioxide (Trademark: FR-767, FR-761)**
- **1.2** substance/Information on the use of the mixture and prohibited uses
- substance/Use of mixture: For industrial colorants, pigments
- **1.3** Supplier details in safety data sheet
- manufacturer/supplier: Qianjiang Fangyuan Titanium Dioxide Co., Ltd.
- address: Zhanghua North Road, Qianjiang City 99 Number
- Telephone: 0728-6201760
- e-mail: limin198348@163.com
- sole representative/EU contact person: No relevant details
- Departments where additional information is available: Qianjiang Fangyuan Titanium Dioxide Co., Ltd.
- **1.4** Emergency contact phone
- number: GERMANY
- Poison Center Berlin - Institute of Toxicology
- Tel: +49 030 192 40
- **1.5** reference number: CANEC2220514202, 10018761 CQ

### 2 Hazard summary

- **2.1** Hazard class of the substance or mixture
- According to EU regulations (EC) No. 1272/2008 This product is classified according to the EU Classification of Substances and Mixtures, Labeling and packaging related CLP Regulations n.o.c..
- Information harmful to humans and the environment: According to EU regulations (EC) No. 1272/2008 calculation method, this product needs to be labeled.
- Classification system: In accordance with the latest version of EU regulations (EC) No. 1272/2008 and classification, augmented with company and literature data.
- **2.2** tag element
- According to EU regulations (EC) No. 1272/2008 Make tags not applicable
- Pictograms not applicable
- signal word: not applicable
- Hazard statements do not apply
- additional information:
- Safety instructions available on request
- Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.**
- **2.3** Other hazards:
- **PBT** (Residuality, bioconcentration, Toxic substances) and **vPvB** (High residue, Highly bioconcentrated substances) Evaluation results
- **PBT** (Residuality, bioconcentration, Toxic substances): not applicable
- **vPvB** (High residue, Highly bioconcentrated substances): not applicable

### 3 Element/composition information

- **3.2** mixture
- describe:
- A mixture of the following ingredients containing harmless additives
- See Section 16 for hazard statements

Ingredients:			
CAS: 13463-67-7 EINECS: 236-675-5	Titanium dioxide	Substances with exposure limits in the workplace	≥93%
CAS: 1344-28-1 EINECS: 215-691-6	Alumina	Substances with exposure limits in the workplace	≤5%

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CAS: 1314-23-4  
EINECS: 215-227-2

Zirconia

Substances with exposure limits in the workplace≤2%

## 4first-aid

- **4.1**Emergency measures essentials
  - inhalation:Provide fresh air and ask the doctor if the patient feels unwell.
  - skin contact:General products will not irritate the skin.
  - eye contact:Open your eyes and rinse them under running water for a few minutes.
  - ingest:If symptoms persist, consult a doctor.
- **4.2**The most important acute and chronic symptoms and their effects:No relevant details.
- **4.3**Symptoms that require prompt medical treatment and special treatment:No relevant details.

## 5Fire-fighting measures

- **5.1**Extinguishing agent
  - Suitable fire extinguishing agent:Use fire-fighting measures appropriate to the surrounding environment.
- **5.2**Special hazards of the substance or mixture:No relevant details.
- **5.3**Information for firefighters
  - protective equipment:No special measures required.

## 6Accidental leakage measures

- **6.1**Personal protective measures,Protective equipment and emergency procedures are not required.
- **6.2**Environmental protection measures:No special measures required.
- **6.3**Methods and materials for containing and cleaning up spills:Use mechanical lifting.
- **6.4**See other sections:
  - For information on safe handling see section7part.
  - For information on personal protective equipment please see section8part.
  - For information on disposal please see section13part.

## 7Handling and storage

- **7.1**Precautions for safe handling and handling:For general occupational hygiene measures please refer to Chapter8part.
- Information on fire and explosion prevention:No special measures required.
- **7.2**Safe storage conditions,including any incompatibilities
  - Requirements for repositories and containers:no special requirements.
  - Information about storage in shared storage facilities:Does not require.
  - More information on storage conditions:No.
- **7.3**specific end use:No relevant details.

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### 8Exposure controls and personal protection

#### 8.1Control parameters

Ingredients requiring limit value monitoring in the workplace:

#### 13463-67-7Titanium dioxide(≥93%)

AGW (D)	PC-TWA: 1.25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**enatembar; AGS, DFG
VLEP(F)	PC-TWA: 10 mg/m <sup>3</sup>
WEL (GB) P	PC-TWA: 10* 4** mg/m <sup>3</sup> * total inhalable **respirable

#### 1344-28-1Alumina(≤5%)

AGW (D)	PC-TWA: 1.25* 10** mg/m <sup>3</sup> 2(II);*alveolengängig**enatembar; AGS, DFG
VLEP(F)	PC-TWA: 10 mg/m <sup>3</sup>
WEL (GB) P	PC-TWA: 10* 4** mg/m <sup>3</sup> * inhalable dust **respirable dust

#### 1314-23-4Zirconia(≤2%)

MAK(D)	PC-TWA: 0.3A* mg/m <sup>3</sup> *multipliziert mit Materialdichte
WEL (GB) P	PC-STEL: 10 mg/m <sup>3</sup> PC-TWA: 5 mg/m <sup>3</sup> Zr

#### Regulatory Information

AGW (D): TRGS 900 VLEP (F):

ED 1487 12.2019 WEL (GB):

EH40/2020

MAK (D): MAK- und BAT-Liste

Derived no-effect concentration value No relevant details available

Estimated no significant impact concentration value No relevant details

additional information:The list valid at the time of production will be used as the basis.

8.2Exposure Controls Based on the ingredient information listed in Section 3, the following safety measures are recommended for occupational exposure control.

appropriate technical controls:For information on the design of technical facilities please see Part 7.

personal protective equipment:

respiratory protection:Does not require.

hand protection:



protective gloves

The material of the gloves must be impermeable and resistant to the product/substance/additive. Due to lack of testing, no recommendations on glove materials can be provided for the product/preparation/chemical mixture.. When selecting glove materials, pay attention to the material's penetration time, percolation rate, and degradation parameters.

glove material

Choosing the right glove depends not only on the material, but also on the quality characteristics and which manufacturer it comes from..Because this product is formulated from many materials, the resistance of the glove material is unpredictable and must be checked before use..

Penetration time into glove material:Please obtain the accurate rupture time from the labor protection glove manufacturer and observe the actual rupture time.

eye protection:Does not require.

environmental exposure controls:Control measures must comply with environmental protection regulations.

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### 9 Physical and chemical properties

- **9.1** Information about basic physical and chemical properties

- Exterior:

Traits: powder

color: White

- odor: No abnormal odor

- odor threshold: No relevant details

- pH value: No relevant details

- changing conditions

melting point/Freezing point: No relevant details

boiling point: No relevant details

- Flash point: No relevant details

- Flammability (solid, gas): No relevant details

- Auto-ignition temperature: No relevant details

- Decomposition temperature: No relevant details

- Spontaneous ignition: No relevant details

- Explosion hazard: No relevant details

- Explosion limit:

lower limit: No relevant details

upper limit: No relevant details

- Oxidative properties: No relevant details

- Vapor Pressure: No relevant details

- density: No relevant details

- Relative density: No relevant details

- Vapor density: No relevant details

- evaporation rate: No relevant details

- Solubility/Miscibility

water: No relevant details

- n-Octanol/water partition coefficient: No relevant details

- viscosity:

dynamic viscosity: No relevant details

kinematic viscosity: No relevant details

- 9.2 other information: No relevant details

### 10 Stability and reactivity

- **10.1** Reactivity: No relevant details.

- **10.2** chemical stability: No relevant details.

- **10.3** Possibility of hazardous reactions: No known hazardous reactions.

- **10.4** Conditions to avoid: No relevant details.

- **10.5** incompatible substances: No relevant details.

- **10.6** Hazardous decomposition products: Unknown hazardous decomposition products.

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### 11Toxicological information

- 11.1Information on toxicological effects
- acute toxicity:Based on existing data,Products are not classified.

• related to classificationLD/LC50value:

**13463-67-7**Titanium dioxide

oral cavityLD50	> 20,000 mg/kg (rat)
skinLD50	> 10,000 mg/kg (rabbit)
inhalationLC50/4 h	>6.82 mg/l (rat)

- skin corrosion/Stimulate:Based on available data, the product is not classified.
- serious eye damage/Eye irritation:Based on available data, the product is not classified.
- Respiratory or skin allergies:Based on available data, the product is not classified.
- Germ cell mutagenesis:Based on available data, the product is not classified.
- Carcinogenicity:Based on available data, the product is not classified.
- reproductive toxicity:Based on available data, the product is not classified.
- Specific target organ systemic toxicity-one time contact:Based on available data, the product is not classified.
- Specific target organ systemic toxicity-repeated exposure:Based on available data, the product is not classified.
- Aspiration hazard:Based on available data, the product is not classified.

### 12ecological information

- **12.1ecotoxicity**
- Aquatic toxicity:No relevant details.
- **12.2**Persistence and degradability:No relevant details.
- **12.3**bioaccumulative potential:No relevant details.
- **12.4**mobility within soil:No relevant details.
- **12.5 PBT** (Residuality,bioconcentration,Toxic substances)and**vPvB** (High residue,Highly bioconcentrated substances)Evaluation results
- **PBT** (Residuality,bioconcentration,Toxic substances):not applicable
- **vPvB** (High residue,Highly bioconcentrated substances):not applicable
- **12.6**No detailed information on other side effects.
- **12.7**Additional ecological information:
- General comments:Generally speaking, it is not harmful to water.

### 13Disposal

- **13.1**Disposal methods
- suggestion:This product must not be thrown away with household waste.Do not allow this product to come into contact with sewage systems.
- Contaminated containers and packaging:
- suggestion:Must be discarded according to official regulations.
- Recommended cleaning agents:Use water and detergent to clean if necessary.

### 14Transport information

- **14.1**UN dangerous goods number(UNNumber)
- **ADR/RID/ADN, IMDG, IATA** not applicable
- **14.2**UNappropriate shipping name
- **ADR/RID/ADN, IMDG, IATA** not applicable

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- **14.3**Transport hazard level
- **ADR/RID/ADN, IMDG, IATA**
- level not applicable
- Label -

- **14.4**Packaging group
- **ADR/RID/ADN, IMDG, IATA** not applicable

- **14.5**Environmental hazard:
- Maritime pollutants: NO

- **14.6**Special precautions for users not applicable
- Danger code: -

- **14.7 MARPOL73/78** (Agreement on the Prevention of Marine Pollution from Ships)Attachment book2and basis**IBC Code** (International Shipping Cargo Code)bulk shipping not applicable

- **UN** "standard regulation": not applicable

**15**Regulatory Information

- **15.1**Safety for corresponding pure substances or mixtures,Health and environmental regulations/law

<b>• MAK (German Maximum Workplace Concentration)</b>	
13463-67-7Titanium dioxide	3A
1344-28-1Alumina	2

- EU Directives**2012/18/EU**
- Appendix 1 Hazardous Substances These ingredients are not listed on the list.
- **Seveso category**not applicable
- **Qualifying quantity (tonnes) for the application of lower-tier requirements**not applicable
- **Qualifying quantity (tonnes) for the application of upper-tier requirements**not applicable
- country regulations:
- water hazard level:Generally speaking, there is no danger to water
- Other regulations,Restrictions and Prohibitions

- **REACH**Candidate list of substances of high concern for authorization review in Appendix 14 of the regulations(**10/6/2022**)

no ingredients listed

- EU regulations**REACH**Appendix 17 Restricted Substances(**8/4/2022**) For information on usage restrictions please see section**16**part.

no ingredients listed

- EU regulations**REACH**Appendix 14 Authorized Substances(**23/11/2021**)

no ingredients listed

- **15.2**Safety evaluation of chemical substances:Safety evaluation of chemical substances has not yet been carried out

**16**other information

- \*\*\*\*\*
- **\*\*** The content and format of this chemical safety data sheet are in accordance with EU regulations (EC) No 1907/2006, (EC) No 1272/2008and( EU)No 2015/830Written.

**Disclaimer:**

The information in this chemical safety data sheet is obtained from sources we believe to be reliable..However, the data provided is made without warranty, either express or implied.Disposal of this product,store,Conditions and methods of use or disposal are beyond our control and may be beyond our control

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the scope of their knowledge. Under no circumstances will we be liable for improper handling, storage, damage caused by the use or disposal of this chemical, damages or related costs. This chemical safety data sheet is prepared based on this product and can only be applied to this product. If this product is used as a component of another product, this chemical safety data sheet does not apply.

- abbreviation:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS:

European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent PBT: persistent

bioaccumulative toxic substances

vPvB: very Persistent and very Bioaccumulative

- \*\*\*\*\* over

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