

## SAFETY DATA SHEET TITANIUM DIOXIDE PREPARATION

according to Regulation (EC) No. 1907/2006

SolidFlow **PW6 Titanium White** - Product code **SF 991-X**

Date of Revision: October 10<sup>th</sup> 2024    Revision N:1    Country / Language: ITA / EN

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

#### 1.1. Product identifier

|                      |                                     |
|----------------------|-------------------------------------|
| Trade name:          | Titanium Dioxide Rutile Preparation |
| Product code:        | SF 991-X                            |
| CAS number:          | 13463-67-7                          |
| INDEX number:        | CI Pigment White 6                  |
| EEC (EINECS) number: | 236-675-5                           |
| Structural Formula:  | TiO <sub>2</sub>                    |

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

|                               |   |
|-------------------------------|---|
| Use of the Substance/Mixture: | Synthetic pigment mixed with anionic and non-ionic surfactants. |
|-------------------------------|---|

#### 1.3. Details of the supplier of the safety data sheet

|          |  |
|----------|--|
| Company: | <b>SIOF S.p.A.</b><br>Via Garibaldi 62<br>15068 - Pozzolo Formigaro (AL) Italy<br>Tel: +39 0143417781<br>VAT nr.: IT 0016470069<br>Production sites: 1) Pozzolo Formigaro (AL) - Via Garibaldi 62<br>2) Verona - Via Pisano 53/A |
|----------|--|

Email address of the competent person:

siof@siof.it

#### 1.4. Emergency telephone number

|                             |                |
|-----------------------------|----------------|
| Emergency telephone number: | +39 0143417781 |
|-----------------------------|----------------|

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008):

The product is not classified, according to the CLP regulation.

#### 2.2. Label elements

None.

Additional information::

The products identified in section 1.1 are not classified pursuant to Regulation 2020/217 (14th ATP to Regulation (EU) 1272/2008, Annex VI).

EUH 212 Attention: in case of use, dangerous respirable dust may form. Do not breathe dust.

EUH210 safety data sheet available on request.

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### 2.3 Other hazards


Commission Delegated Regulation (EU) No. 2020/217 classified titanium dioxide in powder form as containing 1% or more particles with an aerodynamic diameter  $\leq 10 \mu\text{m}$  as a Category 2 carcinogen by inhalation. The analysis of the titanium dioxide particles covered by this document confirms that it is not necessary to classify the product.

This substance/mixture contains no components considered to be either persistent, bio accumulative and toxic (PBT), or very persistent and very bio accumulative (vPvB).

The substance/mixture does not contain components considered to have endocrine interference properties.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

| Components:                          |   |         |
|--------------------------------------|---|---------|
| CAS: 13463-67-7<br>EINECS: 236-675-5 | Titanium dioxide, Pigment White 6<br>Not classified.  |         |
| CAS: 77-99-6<br>EINECS: 201-074-9    | Trimethylolpropane  | < 0,45% |
|                                      |  Resp. Tox (H361d, H361f) |         |

#### Other components:

**Name:**

Anionic and non-ionic additives.

**Additional information:**

Commission Delegated Regulation (EU) No 2020/217 has classified titanium dioxide ( $\text{TiO}_2$ ) in the form of dust containing 1% or more particles with an aerodynamic diameter  $\leq 10 \mu\text{m}$  as a category 2 inhalation carcinogen. Analysis of the titanium dioxide particulate matter covered by this document confirms that it is not necessary to classify the product.

Respirable fraction, particle size  $< 10 \mu\text{m}$ . As a precautionary measure, the D10 of the pigmentary preparation may be considered to approach the size of the primary particle. The particles with size  $< 10 \mu\text{m}$  pertain to the pigment as a single component.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information:**

No special measures required.

**If inhaled:**

Supply fresh air; consult doctor in case of symptoms.



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|                                 |   |
|---------------------------------|---|
| <b>In case of skin contact:</b> | Wash with water and soap and rinse thoroughly.  |
| <b>In case of eye contact:</b>  | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Get medical attention if symptoms appear.            |
| <b>If swallowed:</b>            | Rinse mouth with water. increase the intake of liquids with the aim of expelling the product from the body. If symptoms persist, consult physician. |

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**4.2 Most important symptoms and effects, both acute and delayed**

No further information available.

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**4.3 Indication of any immediate medical attention and special treatment needed**

No further information available.

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

Use fire fighting measure that suit the environment.

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**5.2 Special hazards arising from the substance or mixture**

The product is not combustible.

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**5.3 Advice for firefighters**

Use protective measures that suit the hazard conditions.

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**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Avoid the formation of dust, provide adequate ventilation, use personal protective equipment.

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**6.2 Environmental precautions**

Do not allow discharge into sewers or waterways. In case of pollution of rivers, lakes, or sewers inform the competent authorities in accordance with local regulations.

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**6.3 Methods and material for containment and cleaning up**

Removal methods:

Avoid the formation of dust. Use any suitable mechanical means (vacuum cleaner, broom). The substance is slippery when wet. The substance leaked into the water is already visible in low concentrations.

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**6.4 Reference to other sections**

For emergency phone numbers see Section 1. For the appropriate safety measures see Section 8. For information regarding the treatment of waste products see Section 13.

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**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

See section 8 for the devices for individual protection. Prevent dust formation and provide adequate ventilation. Provide measures to control the formation of static electricity.

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**7.2 Conditions for safe storage, including any incompatibilities**

Store in a dry setting, in its original packaging and closed. No specific recommendation.

**7.3 Specific end use(s)**

No data.

**SECTION 8: Exposure controls/personal protection**

**8.1 Control parameters**

**Titanium dioxide 13463-67-7:** TWA 10 mg/m<sup>3</sup>

**Components with critical values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006**

| Substance                   | Final use | Exposure pathways | Value                  |
|-----------------------------|-----------|-------------------|------------------------|
| Titanium dioxide 13463-67-7 | Worker    | Inhalation        | 1.25 mg/m <sup>3</sup> |
| Trimethylolpropane 77-99-6  | Worker    | Inhalation        | 3.3 mg/m <sup>3</sup>  |
| Trimethylolpropane 77-99-6  | Worker    | Dermal            | 0.94 mg/kg bw/day      |

**8.2 Exposure controls**

**Individual protection devices:**

**Respiratory protection:**

Use respiratory devices (EN 143 with antiparticle filter (P2))

**Hand protection:**

Use protective gloves.

**Eye protection:**

Use approved protective glasses.

**Hygiene measures:**

Do not eat, drink, or smoke during the process. In case of contact of eyes wash with water.

**Skin protection:**

Use clothing not easily permeable to dust.

**Environmental exposure controls:**

The equipment intended for the production of powder form (bagging machines, mixers, dryers) must be equipped with an air intake and filtration system to prevent the formation of dust in the working and external environment.

Water should not enter the sewers, waterways, or the soil.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance:** Granules

**Physical state:** Solid

**Colour:** White

**Odour:** Characteristic

**Solubility:** Insoluble in water. It disperses.

**Density:** 3,7 - 4,1 kg/l (pigment)

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|                                   |                   |
|-----------------------------------|-------------------|
| <b>Bulk density:</b>              | 0.8 - 1.2 kg/l    |
| <b>Decomposition temperature:</b> | No data available |
| <b>Flammability:</b>              | Not applicable.   |

**9.2 Other information**

No data.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

The substance is stable under normal conditions.

**10.2 Chemical stability**

No decomposition under normal use conditions.

**10.3 Possibility of hazardous reactions**

No specific information of this product is available.

**10.4 Conditions to avoid**

Dust formation.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

No data available.

**SECTION 11: Toxicological information**

**11.1 Toxicological information**

**Information on likely**

**routes of exposure:**

Inhalation  
Eye contact  
Skin contact

**Acute toxicity:**

Not classified based on available information.

**Product:**

**LD/LC50 values that are relevant for classification:**

**CAS: 13463-67-7 titanium dioxide:** Oral LD50 >5,000 mg/kg (rat) (OECD 425)  
Dermal LD50 >5,000 mg/kg (rabbit)  
LC50/4h inhalation > 6.8 mg/l (rat)

**CAS: 77-99-6 Trimethylolpropane:** Oral LD50 14,700 mg/kg (rat)  
Dermal LD50 >10,000 mg/kg (rabbit)  
LC50 inhalation 850 mg/m<sup>3</sup> (rat)

**Skin corrosion/irritation:** No skin irritation.

**Serious eye damage/eye irritation:** No eye irritation.

**Respiratory or skin sensitization:** Not classified based on available information.

**Skin sensitization:** Not sensitizing

**Respiratory sensitization:** Not sensitizing

**Germ cell mutagenicity:** Not classified based on available information.

**Carcinogenicity:** Not classified based on available information.

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|                                |  |
|--------------------------------|--|
| <b>Reproductive toxicity:</b>  | Not classified based on available information. |
| <b>STOT-single exposure:</b>   | Not classified based on available information. |
| <b>STOT-repeated exposure:</b> | Not classified based on available information. |
| <b>Aspiration hazard:</b>      | Not classified based on available information. |

## SECTION 12: Ecological information

### 12.1 Toxicity

#### Toxicity to fish:

**CAS: 13463-67-7 titanium dioxide:** LC50 > 10,000 mg/l (Sheepshead minnow)  
1,000 mg/l (Pimephales promelas)

**CAS: 77-99-6 Trimethylolpropane:** LD50 = 21700 mg/l (48h Cyprinodon)

#### Toxicity to Daphnia and other aquatic invertebrates:

**CAS: 13463-67-7 titanium dioxide** LC50 > 10,000 mg/l (Acartia tonsa)  
1,000 mg/l (Daphnia magna)

**CAS: 77-99-6 Trimethylolpropane:** EC50: 10330 - 16360 mg/l (Daphnia magna)  
EC50 = 10300 mg/l (48 h, Daphnia species)

#### Toxicity to algae and aquatic plants:

**CAS: 13463-67-7 titanium dioxide** EC50 > 100 mg/l (Pseudokirchneriella subcapitata)  
10,000 mg/l (Skeletonema costatum)

#### Toxicity to sediment organisms

**CAS: 13463-67-7 titanium dioxide** NOEC ≥ 100,000 mg/kg dw (Hyalella azteca) No available information.

### 12.2 Persistence and degradability

Not applicable.

### 12.3 Bioaccumulative potential

Not bioaccumulable

Trimethylolpropane: partition coefficient -0.47.

### 12.4 Mobility in soil

The product is immobile in soil.

### 12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine Disrupting Properties

The product does not contain substances with endocrine disrupting properties.

### 12.7 Other adverse effects

Non available information o this product.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**European waste catalogue:** Waste code number according to origin of waste.

**Recommendation:** Disposal according to official regulations.

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**SECTION 14: Transport information**

**14.1 UN number**

Not applicable.

**14.2 UN proper shipping name**

Not applicable.

**14.3 Transport hazard class(es)**

Not applicable.

**14.4 Packing group**

Not applicable.

**14.5 Environmental hazards**

Not applicable.

**14.6 Special precautions for user**

Not applicable.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable.

**SECTION 15: Regulatory information**

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Product classified as non-hazardous according to the regulation 1272/2008 CE.

**15.2 Chemical safety assessment**

Not available.

**SECTION 16: Other information**

**Issued by:**

Responsible for Health, Safety, and Environment

**Date:**

October 10<sup>th</sup>, 2024

**Revision:**

1

**More information:**

This safety data sheet is drawn up in compliance with in force the regulations in classification and labeling matter on the revision date indicated in the header. The information provided on this SAFETY DATA SHEET corresponds to the state of our knowledge and knowledge our experience of the product, and it is not exhaustive.

It applies to the product as is, compliant with specifications. In case of combinations or mixtures, make sure that no new danger can arise. In no case does it exempt the user of the product from complying with all legislative provisions, administrative and regulatory issues relating to the product, hygiene and safety at work.