

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Nylon 12 White

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

1.1 **Product identifier** 

> Product Name: Nylon 12 White Product code: FLP12W01 **UFI:** QA50-J0K1-W00J-UEHR

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

**Relevant identified uses:** For use in Formlabs Fuse Printers. **Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

Details of the manufacturer/supplier of the safety data sheet 1.3

> **United States** Formlabs, Inc. 35 Medford St Suite 201 Somerville, MA 02143

+1 617 855 0762 sds@formlabs.com Supplier: Germany Formlabs GmbH

Nalepastr. 18 Berlin, . 12459 +49 30 700 146 501

#### **Emergency telephone number:** 1.4

**European Union** 

Manufacturer:

CHEMTREC (EMEA) +44 20 3885 0382 (24/7)

## SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

> Classification according to Regulation (EC) No. 1272/2008 (CLP): The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

Hazard-determining components of labeling: None

Additional Information: None

**Label elements** 2.2

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms: None Signal Word: None

Hazard statements: None

Precautionary statements: None

2.3 Other hazards: None known

## SECTION 3: Composition/information on ingredients

**Substance:** Not applicable. 3.1

3.2 Mixture:

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Identification	EU REACH Registration No.	Name	Classification according to Regulation (EC) No. 1272/2008 (CLP)	Weight %
CAS number: 13463-67-7 EC number: 236-675-5	-	Titanium Dioxide	Not classified;	<5
CAS number: Trade Secret EC number: Trade Secret	-	Trade Secret	Not classified;	<0.5

Additional information: None

Full Text of H and EUH statements: See section 16

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### **General notes:**

Show this Safety Data Sheet to the doctor in attendance.

#### Following inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. If respiratory symptoms develop or persist, seek medical advice/attention.

## **Following skin contact:**

Wash affected area with plenty of soap and water. Remove contaminated clothing and launder before reuse. If skin irritation develops or persists, seek medical advice/attention.

#### Following eye contact:

Immediately rinse eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15 minutes. If eye irritation develops or persists, seek medical advice/attention.

## Following ingestion:

If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention.

## Self-Protection of the first aider:

Not determined or not available.

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

**Acute symptoms and effects:** Not determined or not available.

#### **Delayed symptoms and effects:**

Not determined or not available.

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

#### **Specific treatment:**

Not determined or not available.

## Notes for the doctor:

Treat symptomatically.

## **SECTION 5: Firefighting measures**

## 5.1 Extinguishing media

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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## Suitable extinguishing media:

Water mist/fog, carbon dioxide, dry chemical or alcohol resistant foam.

## Unsuitable extinguishing media:

Do not use water jet.

## 5.2 Special hazards arising from the substance or mixture:

Thermal decomposition may produce irritating/toxic fumes/gases.

## 5.3 Advice for firefighters

## **Personal protection equipment:**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

#### **Special precautions:**

Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

Violent reactions may result from the use of a water jet or halogenated extinguishing agents. When using extinguishers, avoid dispersing combustible dust into the air. Aim extinguishers directly at the base of the flames and apply the agent as gently as possible. Overall, give preference to using medium to wide spray patterns rather than solid streams. Use only non-sparking tools. Fire fight from a protected location or maximum possible distance. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution.

## **SECTION 6: Accidental release measures**

## 6.1 Personal precautions, protective equipment and emergency procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling.

#### **6.2** Environmental precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided.

## 6.3 Methods and material for containment and cleaning up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. Contain and collect spillage and place in suitable container for future disposal. Dispose of in accordance with all applicable regulations (see Section 13). Avoid dust generation or stirring up of dust. Use only non-sparking tools. Ground all equipment used for recovery and clean up. Vacuum up and place in suitable containers for future disposal. Only use vacuum cleaners approved for dust collection. Dispose of in accordance with all applicable regulations (see Section 13).

#### 6.4 Reference to other sections:

For personal protective equipment see Section 8. For disposal see Section 13.

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Use dust explosion proof electrical equipment and lighting. Avoid dust generation and dispersal of dust in air. Dust deposits should not be allowed to accumulate on surfaces. Clean dust residues at regular intervals. Do not use

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brooms or compressed air hoses to clean surfaces. Only use vacuums approved for dust collection. Use only nonsparking tools. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions such as electrical grounding and bonding or inner atmospheres. Keep containers tightly closed and grounded when not in use. Workers whose clothing may have been contaminated should change into non-contaminated clothing before leaving the work premises. Contaminated clothing should be segregated in such a manner so that there is no direct personal contact by personnel who handle, dispose or clean the clothing. Contaminated clothing should not be allowed out of the workplace. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10).

## 7.2 Conditions for safe storage, including any incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

#### 7.3 Specific end use(s):

Refer to Section 1 (Recommended Use).

## SECTION 8: Exposure controls/personal protection

## 8.1 Control parameters

Only those substances with limit values have been included below.

## Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Bulgaria	Titanium Dioxide	13463-67- 7	TWA: 10 mg/m³ (respirable dust)
Croatia	Titanium Dioxide	13463-67- 7	15-Minute STEL: 10 mg/m³ (total dust)
	Titanium Dioxide	13463-67- 7	15-Minute STEL: 4 mg/m³ (respirable dust)
Cyprus	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m <sup>3</sup>
Estonia	Titanium Dioxide	13463-67- 7	8-Hour TWA: 5 mg/m <sup>3</sup>
Latvia	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m <sup>3</sup>
Lithuania	Titanium Dioxide	13463-67- 7	8-Hour TWA: 5 mg/m <sup>3</sup>
Romania	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m <sup>3</sup>
	Titanium Dioxide	13463-67- 7	15-Minute STEL: 15 mg/m <sup>3</sup>
Slovakia	Titanium Dioxide	13463-67- 7	8-Hour TWA: 5 mg/m³ (NPEL)
Austria	Titanium Dioxide	13463-67- 7	8-Hour TWA: 5 mg/m³ (dust, respirable fraction)
	Titanium Dioxide	13463-67- 7	STEL: 10 mg/m³ (alveolar dust, respirable fraction 2 X 60 min)
Belgium	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m <sup>3</sup>
Denmark	Titanium Dioxide	13463-67- 7	TWA: 6 mg/m³ (as Ti)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Titanium Dioxide	13463-67- 7	STEL: 12 mg/m³ (total dust)
Finland	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m³ (dust)
France	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m³ (as Ti)
Greece	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m <sup>3</sup> (Inhalable)
	Titanium Dioxide	13463-67- 7	8-Hour TWA: 5 mg/m³ (respirable)
Ireland	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m³ (total inhalable dust)
	Titanium Dioxide	13463-67- 7	8-Hour TWA: 4 mg/m³ (respirable dust)
	Titanium Dioxide	13463-67- 7	STEL: 12 mg/m³
	Titanium Dioxide	13463-67- 7	STEL: 30 mg/m <sup>3</sup>
Italy	Titanium Dioxide	13463-67- 7	8-Hour TWA: 2.5 mg/m³ (finescale particles, respirable fractio)
	Titanium Dioxide	13463-67- 7	8-Hour TWA: 0.2 mg/m³ (nanoscale particles, respirable fraction)
	Titanium Dioxide	13463-67- 7	TWA: 10 mg/m³ (ACGIH)
Portugal	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m <sup>3</sup>
Spain	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m <sup>3</sup> (VLA_ED)
Sweden	Titanium Dioxide	13463-67- 7	Level Limit Value: 5 mg/m³ (total dust)
United Kingdom	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m³ (total inhalable)
	Titanium Dioxide	13463-67- 7	8-Hour TWA: 4 mg/m³ (respirable)
	Titanium Dioxide	13463-67- 7	STEL: 12 mg/m³ (respirable)
	Titanium Dioxide	13463-67- 7	STEL: 30 mg/m³ (total inhalable)
Germany (MAK)	Titanium Dioxide	13463-67- 7	8-Hour TWA: 0.3 mg/m³ (respirable fraction, except ultrafine particles)
	Titanium Dioxide	13463-67- 7	8-Hour TWA: 4 mg/m³ (dust, general threshold limit value [inhalable fraction])
Poland	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m³ (concentration of the respirable Crystalline silica fraction is determined simultaneously inhalable fraction)

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Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Titanium Dioxide	13463-67- 7	15-Minute STEL: 30 mg/m³ (titanium and compounds, as Ti)
Slovenia	Titanium Dioxide	13463-67- 7	8-Hour TWA: 10 mg/m³ (dust, inhalable fraction)
	Titanium Dioxide	13463-67- 7	15-Minute STEL: 20 mg/m³ (dust, inhalable fraction)
	Titanium Dioxide	13463-67- 7	8-Hour TWA: 1.25 mg/m³ (dust, respirable fraction)
	Titanium Dioxide	13463-67- 7	15-Minute STEL: 2.5 mg/m³ (dust, respirable fraction)
Germany (TRGS 900)	Titanium Dioxide	13463-67- 7	Limit Value: 1.25 mg/m³ (general dust limit, respirable fraction)
	Titanium Dioxide	13463-67- 7	Limit Value: 10 mg/m³ (general dust limit, inhalable fraction)

## **Biological limit values:**

No biological exposure limits noted for the ingredient(s).

Derived No Effect Level (DNEL): Ingredient Name: Titanium Dioxide

**CAS #:** 13463-67-7

	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
Workers - Systemic	Acute - Dermal	No hazard identified
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified
	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	Not determined or not applicable.
Workers - Local	Acute - Dermal	No hazard identified
Effects	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	1.25 mg/m³; No hazard identified
	Chronic - Dermal	No hazard identified
	Acute - Oral	No hazard identified
	Acute - Inhalation	No hazard identified
General Population - Systemic Effects	Acute - Dermal	Not determined or not applicable.
	Chronic - Oral	No hazard identified
	Chronic - Inhalation	No hazard identified
	Chronic - Dermal	No hazard identified; No hazard identified

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	Acute - Oral	Not determined or not applicable.
	Acute - Inhalation	No hazard identified
General Population -	Acute - Dermal	No hazard identified
Local Effect	Chronic - Oral	Not determined or not applicable.
	Chronic - Inhalation	Not determined or not applicable.
	Chronic - Dermal	No hazard identified

#### **Predicted No Effect Concentration (PNEC):**

Ingredient Name: Titanium Dioxide

CAS #: 13463-67-7

A3 #: 15405 07 7		
<b>Environmental Protection Target</b>	PNEC	
Fresh water	No hazard identified	
Freshwater sediments	No hazard identified	
Marine water	No hazard identified	
Marine sediments	No hazard identified	
Microorganisms in sewage treatment	No hazard identified	
Soil (agricultural)	No hazard identified	
Air	No hazard identified	
Oral (Secondary Poisoning)	No exposure expected	

## Information on monitoring procedures:

Not determined or not applicable.

#### 8.2 Exposure controls

## **Appropriate engineering controls:**

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

This product is a combustible material which may be ignited by friction, heat, sparks or flames. It is recommended that all dust control equipment (such as local exhaust ventilation and material transport systems) involved in handling this product contain explosion relief vents or an explosion suppression system. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area. Keep static electricity under control, which includes the bonding and grounding of equipment. Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

## Personal protection equipment

## Eye and face protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

## Skin and body protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

## **Respiratory protection:**

If engineering controls do not maintain airborne concentrations below the applicable workplace

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exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

## **General hygienic measures:**

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

#### **Environmental exposure controls:**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Not determined or not applicable.
Instruction measures to prevent exposure:	Not determined or not applicable.
Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

#### Risk management measures to control exposure:

Not determined or not applicable.

## **SECTION 9: Physical and chemical properties**

## 9.1 Information on basic physical and chemical properties

Physical State	Powder
Color	White
Odor/Odor threshold	Odorless
рН	Not determined or not available.
Melting point/freezing point	175-189°C
Initial boiling point/range	Not determined or not available.
Flash point (closed cup)	Not determined or not available.
Flammability	Not Flammable. May form combustible dust concentrations in air.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Vapor pressure	Not determined or not available.
Relative vapor density	Not determined or not available.
Density	Not determined or not available.
Relative density	1.0 - 1.2 cps @ 20°C
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Auto/Self-ignition temperature	> 350°C
Decomposition temperature	> 300°C
Kinematic viscosity	Not determined or not available.
Particle characteristics	Not determined or not available.

#### 9.2 Other information

## 9.2.1 Information with regard to physical hazard classes

Explosives	No data available/Not applicable
Flammable gases	No data available/Not applicable

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Aerosols	No data available/Not applicable
Oxidizing gases	No data available/Not applicable
Gases under pressure	No data available/Not applicable
Flammable liquids	No data available/Not applicable
Flammable solids	No data available/Not applicable
Self-reactive substances and mixtures	No data available/Not applicable
Pyrophoric liquids	No data available/Not applicable
Pyrophoric solids	No data available/Not applicable
Self-heating substances and mixtures	No data available/Not applicable
Substances and mixtures, which emit flammable gases in contact with water	No data available/Not applicable
Oxidizing liquids	No data available/Not applicable
Oxidizing solids	No data available/Not applicable
Organic peroxides	No data available/Not applicable
Corrosive to metals	No data available/Not applicable
Desensitized explosives	No data available/Not applicable

## 9.2.2 Other safety characteristics

None.

## SECTION 10: Stability and reactivity

## 10.1 Reactivity:

Not reactive under recommended handling and storage conditions.

## 10.2 Chemical stability:

Stable under recommended handling and storage conditions.

#### 10.3 Possibility of hazardous reactions:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

## 10.4 Conditions to avoid:

Extreme heat, open flames, hot surfaces, sparks, static discharge, ignition sources, dust generation and accumulation and incompatible materials.

## 10.5 Incompatible materials:

Avoid contact with strong oxidising agents, strong acids and strong bases.

## 10.6 Hazardous decomposition products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

# 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

## Substance data:

Name	Route	Result
Trade Secret	oral	LD50 Rat: > 2000 mg/kg

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Name	Route	Result
Titanium Dioxide	oral	LD50 Rat: > 5000 mg/kg
	inhalation	LC50 Rat: 5.09 mg/L (4 hr [aerosol])

#### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

Serious eye damage/irritation

Assessment: Based on available data, the classification criteria are not met.

**Product data:**No data available.

**Substance data:** No data available. **Respiratory or skin sensitization** 

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Trade Secret	Not Applicable
Titanium Dioxide	Group 2B

## Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

**Reproductive Toxicity** 

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

Specific target organ toxicity (repeated exposure)

Assessment: Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

**Aspiration toxicity** 

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**No data available.

Substance data: No data available.

Information on likely routes of exposure:

No data available.

Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

## 11.2 Information on other hazards

Endocrine disrupting properties:
Substance data: No data available.

Other information: No data available.

## **SECTION 12: Ecological information**

## 12.1 Toxicity

## Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

Product data: No data available.

#### Substance data:

Name	Result
Trade Secret	Aquatic Invertebrates EC50 Daphnia magna: > 21 mg/L (48hr [mobility])
	Aquatic Plants EC50 Raphidocelis subcapitata: > 11 mg/L (72hr [Growth rate])
Titanium Dioxide	Aquatic Invertebrates EC50 Daphnia magna: > 100 mg/L (48 hr [moblity])
	Aquatic Plants EC50 Raphidocelis subcapitata: > 100 mg/L (72 hr [growth rate])
	Fish LC50 Danio rerio: >100 mg/L (96 hr)

## Chronic (long-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

#### Substance data:

Name	Result
Titanium Dioxide	Fish NOEC freshwater fish: >=80 mg/L (6 d [time to hatch])
	Aquatic Invertebrates NOEC Daphnia magna: >= 5 mg/L (21 d [reproduction])

## 12.2 Persistence and degradability

Product data: No data available.

## **Substance data:**

Name	Result
	The study does not need to be conducted because the substance is inorganic.
Titanium Dioxide	Persistence assessment based on biodegradability is not relevant for inorganic compounds such as this substance.

## 12.3 Bioaccumulative potential

Product data: No data available.

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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#### Substance data:

Name	Result
1	The study does not need to be conducted because the substance is inorganic.
	Bioaccumulation assessment using a classic BCF assessment is not considered relevant for inorganic compounds such as this substance.

## 12.4 Mobility in soil

Product data: No data available.

#### Substance data:

Name	Result
Trade Secret	The study does not need to be conducted because the substance is inorganic.
	Mobility in soil assessment based on KOC/Kd values are not relevant for inorganic compounds such as this substance.

#### 12.5 Results of PBT and vPvB assessment

#### Product data:

**PBT assessment:** This product does not contain any substances that are assessed to be a PBT. **vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

#### Substance data:

#### **PBT** assessment:

The study does not need to be conducted because the substance is inorganic.
PBT assessment does not apply to inorganic compounds such as this substance.

#### vPvB assessment:

Trade Secret	The study does not need to be conducted because the substance is inorganic.
	vPvB assessment does not apply to inorganic compounds such as this substance.

## 12.6 Endocrine disrupting properties

Substance data: No data available.

12.7 Other adverse effects: No data available.

## 12.8 Hazard to the ozone layer

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available. **Substance data:** No data available.

## **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

## 13.1.1 Product / Packaging disposal:

Packaging material should be recycled or disposed of in accordance with federal, state, and local regulations.

Waste codes / waste designations according to LoW: Not determined or not available.

- **13.1.2 Waste treatment-relevant information:** Not determined or not available.
- **13.1.3 Sewage disposal-relevant information:** Not determined or not available.

## 13.1.4 Other disposal recommendations:

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities.

## **SECTION 14: Transport information**

## International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

## International Carriage of Dangerous Goods by Inland Waterways (ADN)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

## International Maritime Dangerous Goods (IMDG)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

## International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number or ID number	Not regulated
UN proper shipping name	Not regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

## Maritime Transport in Bulk according to IMO Instruments

Bulk Name	None
Ship type	None
Pollution category	None
IMO hazard class	None
Environmental hazards	None
Material hazardous only in bulk	None

According to Regulation (EC) No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and (EC) No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878.

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Cargo Group	None

## **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture. European regulations

## **Inventory listing (EINECS):**

Trade Secret		Not Listed
13463-67-7	Titanium Dioxide	Listed

**REACH SVHC candidate list:** None of the ingredients are listed. **REACH SVHC Authorizations:** None of the ingredients are listed.

#### **REACH Restriction:**

Trade Secret		Not Listed
13463-67-7	Titanium Dioxide	Listed

Water hazard class (WGK) (Product): Not determined.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Titanium Dioxide	13463-67-7	Non-hazardous to water

## Other regulations

**Germany TA Luft:** None of the ingredients are listed.

Additional information: Not determined.

#### 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

#### **SECTION 16: Other information**

# **Abbreviations and Acronyms:** None **Disclaimer:**

This product has been classified in accordance with EC No. 1272/2008 (CLP), as amended by Commission Regulation (EU) 2019/521 and Commission Delegated Regulation (EU) 2020/217, and EC No. 1907/2006 (REACH), as amended by Commission Regulation (EU) 2020/878. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation, and disposal 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, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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**End of Safety Data Sheet**