

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Titanium Dioxide, Micronized

Creation date: 20.06.2025, Revision: 20.06.2025, Version: 1.0

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

**Product name**

Titanium Dioxide, Micronized

**Product code**

[AL00288]

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

**Relevant identified uses**

Raw material for cosmetic products.

**Uses advised against**

No information.

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

**Supplier**

Farmadria DOO  
Heroja Pinkija 44  
26300 Vršac, Serbia  
+381695565029  
info@avenalab.com

#### 1.4 Emergency Telephone Number

**Emergency**

111

**Supplier**

+381695565029

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Carc. 2; H351 Suspected of causing cancer (inhalation).

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### 2.2 Label elements

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



**Signal word: WARNING**

- H351 Suspected of causing cancer (inhalation).
- P102 Keep out of reach of children.
- P202 Do not handle until all safety precautions have been read and understood.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P308 + P313 IF exposed or concerned: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with national regulation.

**Contains:**

titanium dioxide

### 2.3 Other hazards

**PBT/vPvB**

No information.

**Endocrine disrupting properties**

The product does not contain substances with the potential for endocrine disorders.

**Additional information**

No information.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

For mixtures see 3.2.

### 3.2 Mixtures

Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substance s
titanium dioxide	13463-67-7 236-675-5 022-006-00-2	99- 100	Carc. 2; H351 (inhalation)	/	10, V, W

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Name	CAS EC Index REACH	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Concentration Limits	Notes for substance s
Lauric acid	143-07-7 205-582-1 -	0.1-1	Eye Dam. 1; H318	/	/
aluminum hydroxide	21645-51-2 244-492-7 -	0.1-1	/	/	/

### Notes for substances

10	The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter $\leq 10 \mu\text{m}$ .
V	If the substance is to be placed on the market as fibres (with diameter $< 3 > 5 \mu\text{m}$ and aspect ratio $\geq 3:1$ ) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.
W	It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the substance; it does not constitute a criterion for classification according to this Regulation.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing with water before removing or use gloves.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. Obtain professional medical help!

#### Following skin contact

Take off all contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. If symptoms develop and persist, seek medical attention.

#### Following eye contact

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Immediately flush eyes with running water, keeping eyelids apart. If irritation persists, seek professional medical attention.

### Following ingestion

Do not induce vomiting! Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person. Consult a physician! Show the physician the safety data sheet or label.

4.2 Most important symptoms and effects, both acute and delayed

### Following inhalation

No information.

### Following skin contact

Contact with skin may cause irritation (redness, itching).

### Following eye contact

Contact with eyes can cause irritation (redness, tearing, pain).

### Following ingestion

May cause nausea/vomiting and diarrhea. May cause abdominal discomfort.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

### Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam.

### Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

### Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

### Protective actions

In case of fire or heating do not breathe fumes/vapours. No action shall be taken involving any personal risk or without suitable training.

### Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (BS EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (BS EN 137).

### Additional information

No information.

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### SECTION 6: ACCIDENTAL RELEASE MEASURES

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

##### For non-emergency personnel

##### Protective equipment

No information.

##### Precautionary measures

Ensure adequate ventilation.

##### Emergency procedures

No action shall be taken involving any personal risk or without suitable training. Prevent access to unprotected personnel. Evacuate the danger zone. Avoid breathing dust. Avoid contact with skin, eyes and clothing.

##### For emergency responders

Use personal protective equipment.

#### 6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

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

##### For containment

No information.

##### For cleaning up

Prevent release into the sewer, water, basements or confined areas. Clean contaminated area with plenty of water.

##### Other information

No information.

#### 6.4 Reference to other sections

See also sections 8 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

##### Protective measures

##### Measures to prevent fire

Ensure adequate ventilation.

##### Measures to prevent aerosol and dust generation

Prevent dust formation.

##### Measures to protect the environment

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Avoid release to the environment.

**Other measures**

No information.

**Advice on general occupational hygiene**

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Remove contaminated clothes and wash them before reuse. Wear suitable protective equipment; see Section 8. Avoid exposure - obtain special instructions before using.

7.2 Conditions for safe storage, including any incompatibilities

**Technical measures and storage conditions**

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs.

**Packaging materials**

Store only in original container.

**Requirements for storage rooms and vessels**

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

**Storage temperature**

No information.

**Storage class**

No information.

**Further information on storage conditions**

No information.

7.3 Specific end use(s)

**Recommendations**

No information.

**Industrial sector specific solutions**

No information.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

**Occupational Exposure limit values**

Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
Titanium dioxide respirable (13463-67-7)	4	/	/	/	/	/

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Name	mg/m <sup>3</sup>	ml/m <sup>3</sup>	Short-term value mg/m <sup>3</sup>	Short-term value ml/m <sup>3</sup>	Remark	Biological Tolerance Values
Titanium dioxide total inhalable (13463-67-7)	10	/	/	/	/	/

### Information on monitoring procedures

BS EN 14042:2003 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values. BS EN 482:2021 Workplace exposure. Procedures for the determination of the concentration of chemical agents. Basic performance requirements.

### DNEL/DMEL values

#### For product

No information.

#### For components

Name	Type	Exposure route	exp. frequency	Remark	Value
titanium dioxide	Worker	inhalation	long term local effects	/	170 µg/m <sup>3</sup>
titanium dioxide	Consumer	inhalation	long term local effects	/	28 µg/m <sup>3</sup>
Lauric acid	Worker	inhalation	long term systemic effects	/	17.632 mg/m <sup>3</sup>
Lauric acid	Worker	dermal	long term systemic effects	/	10 mg/kg bw/day
Lauric acid	Consumer	dermal	long term systemic effects	/	5 mg/kg bw/day
Lauric acid	Consumer	oral	long term systemic effects	/	2.5 mg/kg bw/day
Lauric acid	Consumer	inhalation	long term systemic effects	/	4.3 mg/m <sup>3</sup>
aluminum hydroxide	Worker	inhalation	long term systemic effects	/	mg/m <sup>3</sup>
aluminum hydroxide	Worker	inhalation	long term local effects	/	mg/m <sup>3</sup>

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Name	Type	Exposure route	exp. frequency	Remark	Value
aluminum hydroxide	Consumer	oral	long term systemic effects	/	mg/kg bw/day

### PNEC values

#### For product

No information.

#### For components

Name	Exposure route	Remark	Value
Lauric acid	fresh water	/	0.13 mg/L
Lauric acid	marine water	/	0.013 mg/L
Lauric acid	soil	dry weight	2.19 mg/kg

### 8.2 Exposure controls

#### Appropriate engineering control

#### Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothes. Do not eat, drink or smoke while working. Do not breathe dust.

#### Structural measures to prevent exposure

No information.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse.

#### Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

#### Personal protective equipment

##### Eye and face protection

Tight fitting protective goggles (EN 166).

##### Hand protection

Protective gloves (EN ISO 374). Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. The penetration time is determined by the protective glove manufacturer and must be observed.

#### Appropriate materials

#### Skin protection

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Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345:2022). At high risk of skin exposure chemical suits (BS EN 13034:2005+A1:2009) and boots may be required (BS EN ISO 20345:2022+A1:2024).

### Respiratory protection

In case of insufficient ventilation wear suitable respiratory protection. Mask with dust filter (P2) or FFP2 (EN 149:2001+A1:2009). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard BS EN 137, BS EN 138.

### Thermal hazards

No information.

### Environmental exposure controls

### Substance/mixture related measures to prevent exposure

No information.

### Instruction measures to prevent exposure

No information.

### Organisational measures to prevent exposure

No information.

### Technical measures to prevent exposure

Do not allow product to reach drains, sewage systems or ground water.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### Important health, safety and environmental information

Physical state	solid
Shape	powder
Colour	white
Odour	Odorless
Odour threshold	No information.
Melting/freezing point	> 1.8 °C
Boiling point or initial boiling point and boiling range	No information.
Flammability	No information.
Lower and upper explosion limit	No information.
Flash point	No information.

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Auto-ignition temperature	No information.
Decomposition temperature	No information.
pH	No information.
Viscosity	No information.
Solubility	No information.
Partition coefficient n-octanol/water (log value)	No information.
Vapour pressure	No information.
Density	4 g/cm <sup>3</sup> at 20 °C
Relative vapour/gas density	No information.
Particle characteristics	No information.

### 9.2 Other information

**Information with regard to physical hazard classes**

No information.

**Other safety characteristics**

No information.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

### 10.3 Possibility of hazardous reactions

No information.

### 10.4 Conditions to avoid

No information.

### 10.5 Incompatible materials

Reactive with acids, slightly reactive with metals

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### 10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released.

## SECTION 11: TOXICOLOGICAL INFORMATION

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

#### (a) Acute toxicity

##### For components

Name	Exposure route	Type	Species	Time	Value	Method	Remark
titanium dioxide	oral	LD <sub>50</sub>	rat	/	> 10000 mg/kg	/	/
titanium dioxide	dermal	LD <sub>50</sub>	rabbit	/	10000 mg/kg	/	/
titanium dioxide	inhalation (dusts/mists)	LC <sub>50</sub>	rat (male)	4 h	> 6.82 mg/l	/	No deaths occurred at this concentration.
titanium dioxide	inhalation	ATE	/	4 h	> 6.82 mg/l	/	/
Lauric acid	oral	LD <sub>50</sub>	rat	/	> 5000 mg/kg	/	/
Lauric acid	dermal	LD <sub>50</sub>	rabbit	/	> 2000 mg/kg	OECD 434 OECD 434	/
aluminum hydroxide	oral	LD <sub>50</sub>	rat	/	2000 mg/kg bw	/	/
aluminum hydroxide	inhalation	LC <sub>50</sub>	rat	4 h	888 - 2300 mg/m <sup>3</sup>	/	/

#### Additional information

The product is not classified as acutely toxic.

#### (b) Skin corrosion/irritation

##### For components

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Name	Species	Time	result	Method	Remark
titanium dioxide	rabbit	/	Non-irritant.	/	/

**Additional information**

The product is not classified as irritating to skin and eyes.

**(c) Serious eye damage/irritation**

**For components**

Name	Exposure route	Species	Time	result	Method	Remark
titanium dioxide	/	/	/	Solid or dust may cause irritation or corneal injury due to mechanical action.	/	/

**(d) Respiratory or skin sensitisation**

**For components**

Name	Exposure route	Species	Time	result	Method	Remark
titanium dioxide	dermal	mouse	/	Non sensitising.	/	/
titanium dioxide	dermal	guinea pig	/	Non sensitising.	/	/

**Additional information**

The product is not classified as sensitising.

**(e) (Germ cell) mutagenicity**

**For components**

Name	Type	Species	Time	result	Method	Remark
titanium dioxide	in-vitro mutagenicity	/	/	Positive and negative	/	/
titanium dioxide	in-vivo mutagenicity	/	/	Negative.	/	/

**(f) Carcinogenicity**

**For components**

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Name	Exposure route	Type	Species	Time	Value	result	Method	Remark
titanium dioxide	inhalation	/	rat	/	/	Fibrosis and tumors in the lungs were observed in rats that were exposed to inhaled titanium dioxide over a lifetime in two studies. These effects are believed to occur as a result of the overload of normal respiratory clearance mechanisms.	/	Translation required (242003)

**(g) Reproductive toxicity**

No information.

**Summary of evaluation of the CMR properties**

Suspected of causing cancer.

**(h) STOT-single exposure**

**For components**

Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
titanium dioxide	-	-	/	/	/	/	/	Evaluation of available data suggests that this material is not an STOT-SE toxicant.	/	/

**Additional information**

STOT SE (single exposure): Not classified.

**(i) STOT-repeated exposure**

**For components**

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Name	Exposure route	Type	Species	Time	Exposure	organ	Value	result	Method	Remark
titanium dioxide	-	/	animals	/	/	lungs	/	/	/	Translation required (242002)
aluminum hydroxide	oral	NOAEL	rat	/	/	/	200 - 3225 mg/kg bw/day	/	/	/
aluminum hydroxide	inhalation	NOAEC	rat	/	/	/	3 - 70 mg/m <sup>3</sup>	/	/	/

### Additional information

STOT RE (repeated exposure): Not classified.

### (j) Aspiration hazard

#### For components

Name	result	Method	Remark
titanium dioxide	Based on physical properties, it is unlikely that it is a danger of aspiration.	/	/

### Symptoms related to the physical, chemical and toxicological characteristics

No information.

### Interactive effects

No information.

### 11.2 Information on other hazards

#### Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

#### Other information

#### For components

##### Lauric acid

Strong eye irritant.

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### 12.1 Toxicity

#### Acute (short-term) toxicity

##### For components

Name	Type	Value	Exposure time	Species	Organism	Method	Remark
titanium dioxide	LC <sub>50</sub> /EC <sub>50</sub> /IC <sub>50</sub>	> 100 mg/L	/	Aquatic organisms	/	/	/
titanium dioxide	NOEC	> 1000 mg/L	48 h	algae	<i>Leuciscus idus</i>	/	mortality; static test
titanium dioxide	EC <sub>50</sub>	> 1000 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	static system
titanium dioxide	EC <sub>50</sub>	> 100 mg/L	72 h	algae	<i>Pseudokirchneriella subcapitata</i>	OECD 201	/
titanium dioxide	EC <sub>50</sub>	> 1000 mg/L	3 h	bacteria	/	OECD 209	/
Lauric acid	LC <sub>50</sub>	35 mg/L	96 h	fish	<i>Lepomis macrochirus</i>	/	/
Lauric acid	EC <sub>50</sub>	16.9 mg/L	48 h	crustacea	<i>Daphnia magna</i>	/	/
aluminum hydroxide	LC <sub>50</sub>	10 - 19.3 mg/L	72 h	fish	/	/	/
aluminum hydroxide	EC <sub>50</sub>	1.5 - 2.56 mg/L	48 h	Invertebrates	/	/	/

#### Chronic (long-term) toxicity

No information.

### 12.2 Persistence and degradability

#### Abiotic degradation, physical- and photo-chemical elimination

No information.

#### Biodegradation

No information.

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### 12.3 Bioaccumulative potential

#### Partition coefficient n-octanol/water (log value)

No information.

#### Bioconcentration factor (BCF)

No information.

### 12.4 Mobility in soil

#### Known or predicted distribution to environmental compartments

No information.

#### Surface tension

No information.

#### Adsorption/Desorption

No information.

### 12.5 Results of PBT and vPvB assessment

No evaluation.

### 12.6 Endocrine disrupting properties

The product does not contain substances with the potential for endocrine disorders.

### 12.7 Other adverse effects

No information.

### 12.8 Additional information

#### For product

Product is not classified as hazardous for environment.

#### For components

##### titanium dioxide

This substance is not PBT. This substance is not included in the list attached to the Montreal Protocol on Substances that Deplete the Ozone Layer.

##### Lauric acid

Readily biodegradable. Low bioaccumulation potential. Adsorption to solid soil phase is expected.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

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### Product / Packaging disposal

#### Waste chemical

Do not allow product to reach drains/sewage systems. Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste.

#### Waste codes / waste designations according to LoW

No information.

#### Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents.

#### Waste codes / waste designations according to LoW

No information.

#### Waste treatment-relevant information

No information.

#### Sewage disposal-relevant information

No information.

#### Other disposal recommendations

No information.

## SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number or ID number			
Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.	Not dangerous according to transport regulations.
14.2 UN proper shipping name			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.3 Transport hazard class(es)			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable
14.4 Packing group			
Not given/not applicable	Not given/not applicable	Not given/not applicable	Not given/not applicable

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ADR/RID	IMDG	IATA	ADN
14.5 Environmental hazards			
NO	NO	NO	NO
14.6 Special precautions for user			
Limited quantities Not given/not applicable	Limited quantities Not given/not applicable		Limited quantities Not given/not applicable
14.7 Maritime transport in bulk according to IMO instruments			
	Not given/not applicable		

### SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (including last amendment Commission Regulation (EU) 2020/878)
  - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

**Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)**

not applicable

**Ingredients according to Regulation (EC) No 648/2004 on detergents**

No information.

**Special instructions**

Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

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

### SECTION 16: OTHER INFORMATION

**Indication of changes**

No information.

**Key literature references and sources for data**

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No information.

### Abbreviations and acronyms

ATE - Acute Toxicity Estimate  
ADR - Agreement concerning the International Carriage of Dangerous Goods by Road  
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
CEN - European Committee for Standardisation  
C&L - Classification and Labelling  
CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008  
CAS# - Chemical Abstracts Service number  
CMR - Carcinogen, Mutagen, or Reproductive Toxicant  
CSA - Chemical Safety Assessment  
CSR - Chemical Safety Report  
DMEL - Derived Minimal Effect Level  
DNEL - Derived No Effect Level  
DPD - Dangerous Preparations Directive 1999/45/EC  
DSD - Dangerous Substances Directive 67/548/EEC  
DU - Downstream User  
EC - European Community  
ECHA - European Chemicals Agency  
EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)  
EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)  
EEC - European Economic Community  
EINECS - European Inventory of Existing Commercial Substances  
ELINCS - European List of notified Chemical Substances  
EN - European Standard  
EQS - Environmental Quality Standard  
EU - European Union  
Euphrac - European Phrase Catalogue  
EWC - European Waste Catalogue (replaced by LoW – see below)  
GES - Generic Exposure Scenario  
GHS - Globally Harmonized System  
IATA - International Air Transport Association  
ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air  
IMDG - International Maritime Dangerous Goods  
IMSBC - International Maritime Solid Bulk Cargoes  
IT - Information Technology  
IUCLID - International Uniform Chemical Information Database  
IUPAC - International Union for Pure Applied Chemistry  
JRC - Joint Research Centre  
Kow - octanol-water partition coefficient  
LC50 - Lethal Concentration to 50 % of a test population  
LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)  
LE - Legal Entity  
LoW - List of Wastes (see <http://ec.europa.eu/environment/waste/framework/list.htm>)  
LR - Lead Registrant  
M/I - Manufacturer / Importer  
MS - Member States  
MSDS - Material Safety Data Sheet  
OC - Operational Conditions  
OECD - Organization for Economic Co-operation and Development  
OEL - Occupational Exposure Limit

## SAFETY DATA SHEET

ACCORDING TO REGULATION (EC) 1907/2006

Product name: Titanium Dioxide, Micronized

Creation date: 20.06.2025, Revision: 20.06.2025, Version: 1.0

OJ - Official Journal  
OR - Only Representative  
OSHA - European Agency for Safety and Health at work  
PBT - Persistent, Bioaccumulative and Toxic substance  
PEC - Predicted Effect Concentration  
PNEC(s) - Predicted No Effect Concentration(s)  
PPE - Personal Protection Equipment  
(Q)SAR - Qualitative Structure Activity Relationship  
REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals (Regulation (EC) No 1907/2006)  
RID - Regulations concerning the International Carriage of Dangerous Goods by Rail  
RIP - REACH Implementation Project  
RMM - Risk Management Measure  
SCBA - Self-Contained Breathing Apparatus  
SDS - Safety data sheet  
SIEF - Substance Information Exchange Forum  
SME - Small and Medium sized Enterprises  
STOT - Specific Target Organ Toxicity  
(STOT) RE - Repeated Exposure  
(STOT) SE - Single Exposure  
SVHC - Substances of Very High Concern  
UN - United Nations  
vPvB - Very Persistent and Very Bioaccumulative

### List of relevant H phrases

H318 Causes serious eye damage.  
H351 Suspected of causing cancer (inhalation).