

According to Regulation (EC) No 1907/2006, a SDS is not legally required for this product. This SDS is provided voluntarily as a customer service and follows the format outlined in Regulation 1907/2006.

**SECTION 1 Identification of the substance/mixture and of the company/undertaking**
**1.1 Product identifier**

Product name OptiSperse Titanium Dioxide  
 Product code ROD-3817  
 EC number see section 3.2  
 CAS number see section 3.2  
 Date of issue/Date of revision 07/14/2025  
 Version 1/2025

**1.2 Relevant identified uses of the substance or mixture**

**Recommended uses:** personal care applications

**Uses advised against:** not applicable

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

Manufacturer: Color Techniques, Inc.  
 260 Ryan Street  
 South Plainfield, NJ 07080 USA  
 TELEPHONE: 908-412-9292  
 EMAIL: [mahmoud@colortechniques.com](mailto:mahmoud@colortechniques.com)  
 FAX: 908-412-9339

**1.4 Emergency telephone number**

**For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident Call CHEMTREC Day or Night**

**Within USA and Canada: 1-800-424-9300 CCN203590**

**Outside USA and Canada: +1 703-527-3887 (collect calls accepted)**

**SECTION 2 Possible hazards**
**2.1 Classification of the substance or mixture** Isostearic Acid,

Titanium Dioxide, Caprylic/Capric Triglyceride, Polyhydroxystearic Acid, Polyglyceryl-3 Polyricinoleate, Triethoxycaprylylsilane, Isostearic Acid, and Lecithin are not listed as hazardous substances or mixtures according to Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures.

Based on the aerodynamic diameter measurements available, this product does not meet the requirements for classification as per Regulation 2020/217 (14<sup>th</sup> ATP to Regulation (EU) 1272/2008, Annex VI).

**GHS Classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200:**

Not a dangerous substance or mixture

**2.2 Label elements**

**Labelling (Regulation (EC) No. 1272/2008**

Not a hazardous substance or mixture

**Additional Labelling:**

EUH210 Safety data sheet available on request.

EUH212 Warning! Hazardous respirable dust may be formed when used. Do not breath dust.

**2.3 Other Hazards**

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.

Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose, and throat.

**SECTION 3 Composition/information on ingredients**
**3.1 Substances**

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**3.2 Mixtures**

INGREDIENT NAME	CAS NUMBER	EINECS	COLOUR INDEX	REACH
Titanium Dioxide, 95-97%	13463-67-7	236-675-5	77891, Pigment White 6	01-2119489379-17-0006
Caprylic/Capric Triglyceride, 1-1.5%%	73398-61-5	277-452-2	n/a	05-2116942922-40-000
Polyhydroxystearic Acid, 1-1.5%	27924-99-8	Polymer exempt	n/a	Exempt
Triethoxycaprylylsilane, .75-1.25%%	2943-75-1	220-941-2	n/a	01-2119972313-39
Isostearic Acid, .1-.2%%	30399-84-9	250-178-0	n/a	01-2119493913-27
Polyglyceryl-3 Polyricinoleate, .1-.2%	29894-35-7; 235783-76-3	Polymer, exempt	n/a	Exempt
Lecithin, .1-.2%	8002-43-5	232-307-2	n/a	Exempt

**SAFETY DATA SHEET      ROD-3817 OPTISPERSE TITANIUM DIOXIDE**

Version: 1/2025

New: 07/14/2025

Date Issued: 07/14/2025

**SECTION 4      First aid measures**
**4.1 Description of first aid measures**

Eyes – flush eyes with plenty of water for at least 15 minutes. Consult a physician if irritation persists.

Skin – wash with soap and water.

Inhalation – remove to fresh air. If breathing is labored or stopped, give artificial respiration. Get immediate medical attention.

Ingestion – if swallowed, dilute with large amounts of water to induce vomiting. Consult a physician.

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

Symptoms: Dust contact with eyes can lead to mechanical irritation.

Inhalation of dust may cause shortness of breath, tightness of the chest, a sore throat and cough.

The product is not irritant but as with all fine powders can absorb moisture and natural oils from the surface of the skin during prolonged exposure.

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

Treatment:            No specific measures identified.

**SECTION 5      Firefighting measures**
**5.1 Extinguishing media**

Use extinguishing agent applicable to surrounding fire.

**5.2 Special Hazards Arising From Substance Or Mixture**

No unusual fire or spill hazard. Low risk by inhalation.

Hazardous combustion products – none

**5.3 Advise for firefighters**

Fire fighters should wear NIOSH approved, positive pressure, self-contained breathing apparatus and full protective clothing when appropriate

**SECTION 6      Accidental release measures**
**6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment to avoid inhalation of dust

**6.2 Environmental precautions**

Avoid washing into waterways or public water supply.

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

Avoid dust formation. Vacuum, sweep, shovel or use wet clean up techniques and place waste material in closed container.

**6.4 Reference to other sections**

See Section 1 for emergency contact information, Section 8 for appropriate personal protection and Section 13 for additional waste treatment information.

**SECTION 7      Handling and storage**
**7.1 Precautions for safe handling**

Handling: good industrial hygiene practice requires that employee exposure be maintained below tlv. This is preferably achieved through the provision of adequate ventilation where necessary. Where dust cannot be controlled in this way, personal respiratory protection should be employed.

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

Storage: store in a clean, dry area at ambient temperature in original unopened containers. Conditions of high humidity may require storage in a controlled environment.

**7.3 Specific end use(s)**

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**SECTION 8      Exposure controls/personal protection**
**8.1 Control Parameters**
**Occupational Exposure Limits**

Component	CAS No.	Value Type (Form of Exposure)	Control parameters	Basis
Titanium dioxide	13463-76-7	AGW (inhalable fraction)	10 mg/m <sup>3</sup> (Titanium Dioxide)	DE TRGS 900
Peak limit: excursion factor (category)	2; (II)			

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Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values. Commission for dangerous substances, Senate commission for the review of compounds at the workplace dangerous for the health (MAK-commission).			
		AGW (Alveolate fraction)	1.25 mg/m <sup>3</sup> (Titanium dioxide)	DE TRGS 900
Peak-limit: excursion factor (category)	2; (II)			
Further information	General dust value. For this substance no specific occupational exposure limit value is established, since the AGS does not yet have information regarding unspecific action on the respiratory organs in excess of the normal values. Commission for dangerous substances, Senate commission for the review of compounds at the workplace dangerous for the health (MAK-commission).			

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

Component	End Use	Exposure routes	Potential health effects	Value
Titanium dioxide		Inhalation		1.25 mg/m <sup>3</sup>
Remarks	This material is not classified as hazardous, however, lung irritation may arise from over exposure from any dust in the workplace. The DNEL has been derived to prevent lung irritation effect as an additional safety factor to protect workers handling the material.			

**8.2 Exposure controls**

**Engineering measures**      Ensure adequate ventilation, primarily in confined areas

**Personal Protection Equipment**

Industrial hygiene measures:

Respiratory protection:

Maintain exposures below applicable exposure limits:

A respirator must be used if the dust concentration is likely to exceed the occupational exposure limit. At higher concentrations wear particle filter DIN EN 143-P2.

Hand protection:

Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.

Eye protection:

The use of an approved dustproof goggles is recommended if the dust concentration is likely to exceed the occupational exposure limit.

Skin protection:

TiO<sub>2</sub> pigments are not irritant but as with all fine powders can adsorb moisture and natural oils from the surface of the skin during prolonged exposure. Prolonged exposure should be avoided by wearing suitable protective gloves and clothing.

**SECTION 9      Physical and chemical properties**
**9.1 Information on basic physical and chemical properties**

(a) Physical state	solid (powder)
(b) Colour	white
(c) Odour	characteristic
(d) Melting point/freezing point	>1,800°C
(e) Boiling point	not applicable
(f) Flammability	non-flammable
(g) Lower and upper explosion limit	not available
(h) Flash point	not applicable
(i) Auto-ignition temperature	not applicable
(j) Decomposition temperature	not applicable
(k) pH	not applicable
(l) Kinematic viscosity	not applicable
(m) Solubility	Insoluble in water
(n) Partition coefficient-octanol/water (log value)	not applicable
(o) Vapor pressure	not applicable
(p) Density and/or relative density	no data is available
(q) Relative vapour density	not applicable
(r) Particle characteristics	MV(um) 2.596 by laser diffraction

**9.2 Other information**

- (s) **Evaporation rate:** Based on available data, none are known.  
(t) **Explosive properties:** Based on available data, none are known.  
(u) **Oxidizing properties:** Based on available data, none are known

**SECTION 10      Stability and reactivity****10.1 Reactivity**

Conditions to avoid: none

**10.2 Chemical Stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

None

**10.4 Conditions to avoid**

None

**10.5 Incompatible materials**

None known

**10.6 Hazardous decomposing products**

No hazardous decomposition products known

**SECTION 11      Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended

**(a) Acute toxicity:**

LD<sub>50</sub> (rats, oral) > 5,000 mg/kg

Methods: OECD Test Guideline 425

Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity: LC<sub>50</sub> (Rat) :> 6.8 mg/l

Exposure time: 4 hrs

Test atmosphere: dust/mist

Assessment: The substance or mixture has no acute inhalation toxicity.

Acute dermal toxicity: LD<sub>50</sub> (rabbit) > 10,000 mg/kg

Acute toxicity (other routes of administration): No data available

**(b) Skin corrosion/irritation**

Species: Rabbit

Assessment: No skin irritation

Method: OECD Test Guideline 404

Result: Normally reversible injuries

**(c) Serious eye damage/eye irritation:** Species: Rabbit

Assessment: No eye irritation

Method: OECD Test Guideline 405

Result: Normally reversible injuries

**(d) Respiratory or skin sensitization:** Test type; Local lymph node assay (LLNA)

Exposure routes: skin

Species: mouse

Assessment: Does not cause skin sensitization

Method: OECD Test Guideline 429

Result: Does not cause skin sensitization.

Exposure routes: skin

Species: guinea pig

Assessment: Does not cause skin sensitization.

Method: OECD Test Guideline 406

Result: Does not cause skin sensitization.

Assessment: No skin irritation. No eye irritation.

Does not cause skin sensitization. Does not cause respiratory sensitization

**(e) Germ cell mutagenicity**

Genotoxicity in vitro: Test type: Ames test

Concentration: 100-200 ug/plate

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

Test type: In vitro mammalian cell gene mutation test



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Exposure time: 2yr Number of exposures: 6 hours/day, 5 days/week

Method: Chronic toxicity

Repeated dose toxicity- Assessment: No skin irritation, No eye irritation. No Adverse effect has been observed in chronic toxicity tests.

**(j) Aspiration toxicity**

No data available

General Information

No data available

Inhalation

No data available

Skin contact

No data available

Eye contact

No data available

Ingestion

No data available

**11.2 Information on other hazards**

Toxicology, Metabolism, Distribution: No data available

Neurological effects: No data available

Further information: Ingestion No data available

**SECTION 12      Ecological information**
**12.1 Toxicity**

Aquatic toxicity

 Fish LC<sub>50</sub> (Cyprinodon variegatus (sheepshead minnow)): > 10000 mg/l

Plant toxicity

NOEC: 100 000 mg/kg

Exposure time: 480 h

Sediment toxicity

&gt; 100000 mg/kg sediment dw

Study: Acute

Water: Fresh water

Exposure duration: 28 d

Species: Gammarus pulex (Amphipod)

Method: ASTM Method, other

100000 mg/kg sediment dw

Study: Chronic

Test type: semi-static test

Water: Fresh

Exposure duration: 28 d

Species: Gammarus pulex (Amphipod)

Method: ASTM Method, other

14989 mg/kg sediment dw

Study: Acute

Test type: semi-static test

Water: Marine water

Exposure duration: 10 d

Species: Gammarus pulex (Amphipod)

Toxicity to

terrestrial organisms

NOEC: 10 000 mg/kg

Exposure time: 672 h

**12.2 Persistence and degradability**

Methods for the determination of biodegradability are not applicable to inorganic substances.

**12.3 Bioaccumulative potential**

Bioaccumulation

Species: Oncorhynchus mykiss (rainbow trout)

Exposure time: 14 d

Test type: Semi-static test

Bioconcentration factor (BCF): 19-352

Test substance: Fresh water

Method: semi-static test

Remarks: Does not bioaccumulate.

Version: 1/2025

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**12.4 Mobility in soil**

No data

**12.5 Results of PBT and vPvB assessment**

Assessment

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

**12.6 Other adverse effects**

 Absorbed organic  
 bound halogens (AOX)

Remarks: Product does not contain any organic halogens

**SECTION 13      Disposal considerations**
**13.1 Waste treatment methods**

Contaminated packaging:

 The product should not be allowed to enter drains, water courses or the soil.. This material and its container must be disposed of in a safe way in accordance with local and national regulations  
 Containers that cannot be cleaned must be treated as waste and disposed of in an approved industrial incineration facility. The empty and clean containers may be reused in conformity with regulations.

**SECTION 14      Transportation information**

	<b>DOT (USA)</b>	<b>IMDG</b>	<b>IATA</b>
<b>14.1 UN number</b>	Not dangerous goods	Not dangerous goods	Not dangerous goods
<b>14.2 UN proper shipping name</b> Not dangerous goods			
<b>14.3 Transport hazard class</b> Not dangerous goods -			
<b>14.4 Packing group</b> Not dangerous goods			
<b>14.5 Environmental hazards</b>	No	No	No
<b>14.6 Special precautions for user</b> Not classified as hazardous and not regulated			
<b>14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> Not applicable for product as supplied.			

**SECTION 15      Regulatory information**
**15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture**

 REACH- Candidate List of Substances of Very High Concern for Authorisation (Article 59). This product does not contain substances of very high concern (Regulation (EC) No 1907/2006 (REACH), Article 57 Seveso III: Directive 2012/18/EU of the European Parliament and the Council on the control of major-accident hazards involving dangerous substances.: Not Applicable  
 Waste hazard class (Germany)    nwg not water endangering Code Number: 1 345

TA Luft List (Germany)

 Total Dust: Not applicable  
 Inorganic substances in powdered form: Not applicable  
 Inorganic substances in vapour or gaseous form: Not applicable  
 Organic substances: Not applicable  
 Carcinogenic substances: Not applicable  
 Mutagenic: Not applicable  
 Toxic to reproduction: Not applicable

**The components of this product are reported in the following inventories:**

AIIIC (Australia)

KECI (Korea)

