

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

---

### SECTION 1: Identification of the hazardous chemical and of the supplier

#### Product identifier

Product name : Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Chemical name :

CAS-No. : Not Assigned

Product code :

SDS-Identcode : 130000149917

#### Recommended use of the chemical and restrictions on use

Recommended use : Colouring agent  
Pigment

Restrictions on use : For industrial use only.

#### Manufacturer or supplier's details

Company : The Chemours Malaysia Sdn. Bhd.

Address : Suite 20-01 & 20-02B, Level 20, The Pinnacle, Persiaran Lagoon, Bandar Sunway, Subang Jaya  
Selangor Darul Ehsan 47500 Malaysia

Telephone : +60 3 5021 0178

Emergency telephone number : 1-800-815-308

Telefax : +60 3 2178 4719

---

### SECTION 2: Hazards identification

#### Classification of the hazardous chemical

Not a hazardous substance or mixture.

#### Label elements

Not a hazardous substance or mixture.

#### Other hazards which do not result in classification

None known.

---

### SECTION 3: Composition and information of the ingredients of the hazardous chemical

Substance / Mixture : Mixture

#### Components

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version 1.0      Revision Date: 24.10.2022      SDS Number: 10869400-00001      Date of last issue: -  
Date of first issue: 24.10.2022

Chemical name	CAS-No.	Concentration (% w/w)
Titanium dioxide	13463-67-7	$\geq 60$ - $\leq 100$
Trimethylolpropane	77-99-6	$< 1$

### SECTION 4: First aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.  
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.  
Remove contaminated clothing and shoes.  
Get medical attention.  
Wash clothing before reuse.  
Thoroughly clean shoes before reuse.
- In case of eye contact : Flush eyes with water as a precaution.  
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.  
Get medical attention.  
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : irritant effects
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.

### SECTION 5: Firefighting measures

#### Extinguishing media

- Suitable extinguishing media : Not applicable  
Will not burn
- Unsuitable extinguishing media : Not applicable  
Will not burn

#### Physicochemical hazards arising from the chemical

- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion prod- : No hazardous combustion products are known

**Ti-Pure™ TS-1510 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

---

ucts

**Special protective equipment and precautions for fire-fighters**

- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

---

**SECTION 6: Accidental release measures**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).
- Environmental precautions : Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
- Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

---

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

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use only with adequate ventilation.
- Advice on safe handling : Do not swallow. Avoid contact with eyes. Avoid prolonged or repeated contact with skin. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment. Take care to prevent spills, waste and minimize release to the environment.

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version 1.0      Revision Date: 24.10.2022      SDS Number: 10869400-00001      Date of last issue: -  
Date of first issue: 24.10.2022

### Storage

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

Conditions for safe storage : Keep in properly labelled containers.  
Store in accordance with the particular national regulations.

Materials to avoid : No special restrictions on storage with other products.

## SECTION 8: Exposure controls and personal protection

### Control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Titanium dioxide	13463-67-7	TWA	10 mg/m <sup>3</sup>	MY PEL
		TWA (Respirable particulate matter)	2.5 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH
		TWA (Respirable particulate matter)	0.2 mg/m <sup>3</sup> (Titanium dioxide)	ACGIH

**Appropriate engineering controls** : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.

### Individual protection measures, such as personal protective equipment

Eye/face protection : Wear the following personal protective equipment:  
Safety glasses

Skin protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.  
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

### Hand protection

Material : Chemical-resistant gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version 1.0	Revision Date: 24.10.2022	SDS Number: 10869400-00001	Date of last issue: - Date of first issue: 24.10.2022
----------------	------------------------------	-------------------------------	--

Respiratory protection	:	If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.
Filter type	:	Particulates type
Hygiene measures	:	If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before re-use.

### SECTION 9: Physical and chemical properties

Appearance	:	crystalline
Colour	:	white
Odour	:	odourless
Odour Threshold	:	No data available
pH	:	No data available
Melting point/freezing point	:	1,843 °C
Initial boiling point and boiling range	:	3,000 °C
Flash point	:	Not applicable
Evaporation rate	:	Not applicable
Flammability (solid, gas)	:	Will not burn  Not expected to form explosive dust-air mixtures.
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	Not applicable
Relative vapour density	:	Not applicable
Relative density	:	3.6 - 4.3
Solubility(ies)	:	

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version 1.0	Revision Date: 24.10.2022	SDS Number: 10869400-00001	Date of last issue: - Date of first issue: 24.10.2022
----------------	------------------------------	-------------------------------	--

Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity	:	
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Particle size	:	No data available

### SECTION 10: Stability and reactivity

Reactivity	:	Not classified as a reactivity hazard.
Chemical stability	:	Stable under normal conditions.
Possibility of hazardous reactions	:	None known.
Conditions to avoid	:	None known.
Incompatible materials	:	None.
Hazardous decomposition products	:	No hazardous decomposition products are known.

### SECTION 11: Toxicological information

Information on likely routes of exposure	:	Skin contact Ingestion Eye contact
--	---	--

#### Acute toxicity

Not classified based on available information.

#### Components:

##### Titanium dioxide:

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 425
Acute inhalation toxicity	:	LC50 (Rat): > 6.82 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhala-

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version 1.0	Revision Date: 24.10.2022	SDS Number: 10869400-00001	Date of last issue: - Date of first issue: 24.10.2022
----------------	------------------------------	-------------------------------	--

---

tion toxicity

Acute dermal toxicity : Acute toxicity estimate (Rat): > 2,000 mg/kg  
Method: Expert judgement  
Assessment: The substance or mixture has no acute dermal toxicity

### Trimethylolpropane:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 0.85 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist

Acute dermal toxicity : LD50 (Rabbit): > 5,000 mg/kg

### Skin corrosion/irritation

Not classified based on available information.

### Components:

#### Titanium dioxide:

Species : Rabbit  
Method : OECD Test Guideline 404  
Result : No skin irritation

#### Trimethylolpropane:

Species : Rabbit  
Result : No skin irritation

### Serious eye damage/eye irritation

Not classified based on available information.

### Components:

#### Titanium dioxide:

Species : Rabbit  
Result : No eye irritation  
Method : OECD Test Guideline 405

#### Trimethylolpropane:

Species : Rabbit  
Result : No eye irritation

### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

#### Respiratory sensitisation

Not classified based on available information.

**Ti-Pure™ TS-1510 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

---

**Components:****Titanium dioxide:**

Test Type	: Buehler Test
Exposure routes	: Skin contact
Species	: Guinea pig
Method	: OECD Test Guideline 406
Result	: negative

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: negative

Exposure routes	: Inhalation
Species	: Mouse
Result	: negative

Exposure routes	: Inhalation
Species	: Humans
Result	: negative

**Trimethylolpropane:**

Test Type	: Local lymph node assay (LLNA)
Exposure routes	: Skin contact
Species	: Mouse
Method	: OECD Test Guideline 429
Result	: negative

**Germ cell mutagenicity**

Not classified based on available information.

**Components:****Titanium dioxide:**

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
-----------------------	---

	Test Type: In vitro mammalian cell gene mutation test Method: OECD Test Guideline 476 Result: negative
--	--

	Test Type: Chromosome aberration test in vitro Method: OECD Test Guideline 473 Result: negative
--	---

	Test Type: comet assay Method: OPPTS 870.5140 Result: positive
--	--

Genotoxicity in vivo	: Test Type: In vivo mammalian alkaline comet assay Species: Rat
----------------------	---



**Ti-Pure™ TS-1510 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

Application Route: intratracheal  
 Method: OECD Test Guideline 489  
 Result: negative

Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)  
 Species: Rat  
 Application Route: Ingestion  
 Method: OECD Test Guideline 474  
 Result: negative

Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)  
 Species: Mouse  
 Application Route: Intraperitoneal injection  
 Method: OECD Test Guideline 475  
 Result: negative

Test Type: Transgenic rodent germ cell gene mutation assay  
 Species: Mouse  
 Application Route: Intravenous injection  
 Method: OECD Test Guideline 488  
 Result: negative

Germ cell mutagenicity - Assessment : Weight of evidence does not support classification as a germ cell mutagen.

**Trimethylolpropane:**

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test  
 Method: OECD Test Guideline 476  
 Result: negative

**Carcinogenicity**

Not classified based on available information.

**Product:**

Remarks : In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50 and 250 mg/m<sup>3</sup> of respirable TiO<sub>2</sub>. Slight lung fibrosis was observed at 50 and 250 mg/m<sup>3</sup> levels. Microscopic lung tumours were also observed in 13 percent of the rats exposed to 250 mg/m<sup>3</sup>, an exposure level that caused lung overloading and impairment of rat lungs clearance mechanisms.

In further studies, these tumours were found to occur only under particle overload conditions in a uniquely sensitive species, the rat, and have little or no relevance for humans. The pulmonary inflammatory response to TiO<sub>2</sub> particles exposure was also found to be much more severe in rats than in other rodent species.

In February 2006, IARC has re-evaluated Titanium dioxide as pertaining to Group 2B: "possibly carcinogenic to humans", based upon inadequate evidence in humans and sufficient evidence in experimental animals for the carcinogenicity of titanium dioxide. IARC evaluation guidelines consider the

**Ti-Pure™ TS-1510 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

---

generation of tumours, in 2 different studies within the same animal species, to be adequate criteria for an assessment of sufficient evidence.

The conclusions of several epidemiology studies on more than 20000 TiO<sub>2</sub> industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO<sub>2</sub> dust on the human lung. Mortality from other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO<sub>2</sub> dust.

Based upon all available study results, Chemours scientists conclude that titanium dioxide will not cause lung cancer or chronic respiratory diseases in humans at concentrations experienced in the workplace.

**Components:****Titanium dioxide:**

Species	:	Rat
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	2 Years
Result	:	negative

Species	:	Rat
Application Route	:	Ingestion
Exposure time	:	105 weeks
Result	:	negative

Species	:	Mouse
Application Route	:	Ingestion
Exposure time	:	103 weeks
Result	:	negative

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
------------------------------	---	--

**Reproductive toxicity**

Not classified based on available information.

**Components:****Titanium dioxide:**

Effects on fertility	:	Test Type: One-generation reproduction toxicity study Species: Rat Application Route: Ingestion Method: OECD Test Guideline 443 Result: negative
----------------------	---	--

Effects on foetal development	:	Test Type: Prenatal development toxicity study (teratogenicity) Species: Rat Application Route: Ingestion Method: OECD Test Guideline 414 Result: negative
-------------------------------	---	--

Reproductive toxicity - Assessment	:	Weight of evidence does not support classification for repro-
------------------------------------	---	---

## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version 1.0	Revision Date: 24.10.2022	SDS Number: 10869400-00001	Date of last issue: - Date of first issue: 24.10.2022
----------------	------------------------------	-------------------------------	--

---

assessment

ductive toxicity

**Trimethylolpropane:**

Effects on fertility : Test Type: Two-generation reproduction toxicity study  
Species: Rat  
Application Route: Ingestion  
Result: positive

Effects on foetal development : Species: Rat  
Application Route: Ingestion  
Method: OECD Test Guideline 443  
Result: positive

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

**STOT - single exposure**

Not classified based on available information.

**Components:****Titanium dioxide:**

Exposure routes : Skin contact  
Assessment : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

Exposure routes : Ingestion  
Assessment : No significant health effects observed in animals at concentrations of 2000 mg/kg bw or less

Exposure routes : inhalation (dust/mist/fume)  
Assessment : No significant health effects observed in animals at concentrations of 5.0 mg/l/4h or less

**STOT - repeated exposure**

Not classified based on available information.

**Components:****Titanium dioxide:**

Exposure routes : Ingestion  
Assessment : No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Exposure routes : inhalation (dust/mist/fume)  
Assessment : No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

Exposure routes : Ingestion  
Assessment : No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

### Repeated dose toxicity

#### Components:

##### **Titanium dioxide:**

Species	: Rat, male and female
NOAEL	: 24,000 mg/kg
LOAEL	: > 24,000 mg/kg
Application Route	: Ingestion
Exposure time	: 28 Days
Method	: OECD Test Guideline 407
Remarks	: No significant adverse effects were reported

Species	: Rat, male and female
NOAEL	: 0.01 mg/l
LOAEL	: 0.5 mg/l
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 24 Months
Method	: OECD Test Guideline 453
Remarks	: No significant adverse effects were reported

Species	: Rat, male and female
NOAEL	: 962 mg/kg
LOAEL	: > 962 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days
Method	: OECD Test Guideline 408
Remarks	: No significant adverse effects were reported

##### **Trimethylolpropane:**

Species	: Rat
NOAEL	: 67 mg/kg
Application Route	: Ingestion
Exposure time	: 90 Days

### Aspiration toxicity

Not classified based on available information.

#### Components:

##### **Titanium dioxide:**

No aspiration toxicity classification

---

## SECTION 12: Ecological information

### Ecotoxicity

#### Components:

##### **Titanium dioxide:**

Toxicity to fish	: LC50 (Fish): > 1,000 mg/l
	Exposure time: 96 h
	Method: OECD Test Guideline 203

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

---

LC50 (Marine species): > 10,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp. (water flea)): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

EC50 (No species specified): > 1,000 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

EC50 (Skeletonema costatum (marine diatom)): > 10,000 mg/l  
Exposure time: 72 h  
Method: ISO 10253

NOEC (Pseudokirchneriella subcapitata (green algae)): > 100 mg/l  
Exposure time: 3 d  
Method: OECD Test Guideline 201

NOEC (Skeletonema costatum (marine diatom)): 5,600 mg/l  
Exposure time: 3 d  
Method: ISO 10253

### Trimethylolpropane:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 1,000 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13,000 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 21 d

Toxicity to microorganisms : EC50: > 1,000 mg/l  
Exposure time: 3 h

### Persistence and degradability

#### Components:

#### Trimethylolpropane:

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

Biodegradability : Result: Not readily biodegradable.  
Biodegradation: 6 %  
Exposure time: 28 d

### Bioaccumulative potential

#### Components:

##### **Titanium dioxide:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 352

##### **Trimethylolpropane:**

Partition coefficient: n-octanol/water : log Pow: -0.47

##### **Mobility in soil**

No data available

##### **Other adverse effects**

No data available

---

## SECTION 13: Disposal information

### **Disposal methods**

Waste from residues : Disposal of waste to be in accordance with the Environmental Quality (Scheduled Wastes) Regulations and other guidelines issuance by DOE and/or local authorities.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
If not otherwise specified: Dispose of as unused product.

---

## SECTION 14: Transport information

### **International Regulations**

#### **UNRTDG**

UN number : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

#### **IATA-DGR**

UN/ID No. : Not applicable  
Proper shipping name : Not applicable  
Class : Not applicable  
Subsidiary risk : Not applicable  
Packing group : Not applicable  
Labels : Not applicable

# SAFETY DATA SHEET



## Ti-Pure™ TS-1510 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

Packing instruction (cargo aircraft) : Not applicable

Packing instruction (passenger aircraft) : Not applicable

### IMDG-Code

UN number : Not applicable

Proper shipping name : Not applicable

Class : Not applicable

Subsidiary risk : Not applicable

Packing group : Not applicable

Labels : Not applicable

EmS Code : Not applicable

Marine pollutant : Not applicable

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

Not applicable for product as supplied.

### Special precautions for user

Not applicable

## SECTION 15: Regulatory information

### Safety, health, and environmental regulations specific for the hazardous chemical

Occupational Safety and Health (Classification, Labelling and Safety Data Sheet of Hazardous Chemicals) Regulations 2013.

Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

## SECTION 16: Other information

Revision Date : 24.10.2022

Other information : Ti-Pure™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.  
Chemours™ and the Chemours Logo are trademarks of The Chemours Company.  
Before use read Chemours safety information.  
For further information contact the local Chemours office or nominated distributors.  
These products may not be directly added to food, pharmaceuticals, cosmetics, or cigarette papers/filters for tobacco products.  
Do not use or resell Chemours™ materials in medical applications involving implantation in the human body or contact with internal body fluids or tissues unless agreed to by Seller in a written agreement covering such use. For further information, please contact your Chemours representative.

### Further information

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Date format : dd.mm.yyyy

**Ti-Pure™ TS-1510 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	24.10.2022	10869400-00001	Date of first issue: 24.10.2022

---

**Full text of other abbreviations**

ACGIH : USA. ACGIH Threshold Limit Values (TLV)  
MY PEL : Malaysia. Occupational Safety and Health (Use and Standards of Exposure of Chemicals Hazardous to Health) Regulations 2000.

ACGIH / TWA : 8-hour, time-weighted average  
MY PEL / TWA : Eight-hour time-weighted average airborne concentration

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

MY / EN