

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

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### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Ti-Pure™ TS-6200 Titanium Dioxide Pigment

SDS-Identcode : 130000018855

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

Recommended use : Pigment

Restrictions on use : For industrial use only.

#### Manufacturer or supplier's details

Company : Chemours Korea Inc.

Address : 12FL, Majestarcity Tower 1, 12, Seocho-daero 38-gil, Seocho-gu, Seoul 06655, Korea

Telephone : 82-2-2015-5000

Emergency telephone number : 080-880-0454

Telefax : 82-2-2015-5091

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### 2. HAZARDS IDENTIFICATION

#### GHS Classification

This material is not classified as hazardous under the Article 104 of the Occupational Safety and Health Act (OSHA). It is not regulated for the MSDS creation and labeling by the provision of Article 110 Paragraph 1 of the OSHA.

#### GHS label elements

This material is not classified as hazardous under the Article 104 of the Occupational Safety and Health Act (OSHA). It is not regulated for the MSDS creation and labeling by the provision of Article 110 Paragraph 1 of the OSHA.

Hazard pictograms : Not applicable

Signal word : Not applicable

Hazard statements : Not applicable

Precautionary statements : **Prevention:**  
P264 Wash skin thoroughly after handling.  
**Disposal:**

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

P501 Dispose of contents/ container according to waste-related laws

### Other hazards which do not result in classification

Dust contact with the eyes can lead to mechanical irritation.  
Contact with dust can cause mechanical irritation or drying of the skin.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

#### Components

Chemical name	Common Name	CAS-No.	Concentration (% w/w)
Titanium dioxide	No data available	13463-67-7	$\geq 90 - \leq 100$
Silicon dioxide, amorphous	Silica	7631-86-9	$\geq 1 - < 10$
Aluminium hydroxide	No data available	21645-51-2	$\geq 1 - < 10$
Aluminum oxide	No data available	1344-28-1	$\geq 0.1 - < 1$
Trimethylolpropane	No data available	77-99-6	$\geq 0.3 - < 1$

### 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.
In case of eye contact	: If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
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.
If inhaled	: If inhaled, remove to fresh air. Get medical attention.
If swallowed	: If swallowed, DO NOT induce vomiting. Get medical attention. Rinse mouth thoroughly with water.
Most important symptoms and effects, both acute and	: irritant effects Contact with dust can cause mechanical irritation or drying of

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

delayed the skin.  
Dust contact with the eyes can lead to mechanical irritation.

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.

### 5. FIREFIGHTING MEASURES

#### Suitable and unsuitable extinguishing media

Suitable extinguishing media : Not applicable  
Will not burn

Unsuitable extinguishing media : Not applicable  
Will not burn

Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.

Hazardous combustion products : Metal oxides

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.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.  
Use personal protective equipment.

### 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

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

cannot be contained.

Methods and materials for containment and cleaning up : Sweep up or vacuum up spillage and collect in suitable container for disposal.  
Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).  
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.

### 7. HANDLING AND STORAGE

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 breathe dust.  
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  
Minimize dust generation and accumulation.  
Keep container closed when not in use.  
Take care to prevent spills, waste and minimize release to the environment.

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.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Titanium dioxide	13463-67-7	TWA	10 mg/m3	KR OEL
		TWA (Respirable particulate matter)	2.5 mg/m3 (Titanium dioxide)	ACGIH

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

Aluminium hydroxide	21645-51-2	TWA	2 mg/m3 (Aluminium)	KR OEL
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminium)	ACGIH
Aluminum oxide	1344-28-1	TWA	10 mg/m3	KR OEL
		TWA (Respirable particulate matter)	1 mg/m3 (Aluminium)	ACGIH

Other ingredients, which are listed in section 3 but not listed in this section, do not have established occupational exposure limit values.

**Engineering measures** : Ensure adequate ventilation, especially in confined areas.  
Minimize workplace exposure concentrations.  
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 (i.e., there is no leakage from the equipment).

**Personal protective equipment.** Among the following personal protective equipment, the PPEs which require safety certification need to be certified by KOSHA.

Respiratory protection : Use respiratory protection (dust mask) unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.

Filter type : Particulates type

Eye protection : Wear the following personal protective equipment:  
Safety goggles

Hand protection

Material : Chemical-resistant gloves

Remarks : For prolonged or repeated contact use protective gloves.  
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.

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

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.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : powder

Colour : white

Odour : odourless

Odour Threshold : No data available

pH : 4

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

Solubility(ies)  
Water solubility : insoluble

Relative vapour density : Not applicable

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue:
17.0	2025/03/12	1329447-00054	2025/01/22
			Date of first issue: 2017/02/27

---

Relative density	:	3.4 - 4.3
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Decomposition temperature	:	The substance or mixture is not classified self-reactive.
Viscosity	:	
Viscosity, kinematic	:	Not applicable
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.
Molecular weight	:	No data available
Particle characteristics	:	
Particle size	:	No data available

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### 10. STABILITY AND REACTIVITY

Chemical stability and possibility of hazardous reactions	:	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.

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### 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure	:	Inhalation Skin contact Ingestion Eye contact
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#### Health hazard information

##### Acute toxicity

No data available

**Ti-Pure™ TS-6200 Titanium Dioxide Pigment**

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

---

**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 inhalation 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

**Silicon dioxide, amorphous:**

Acute oral toxicity	:	LD50 (Rat): > 5,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 2.08 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity
Acute dermal toxicity	:	LD50 (Rabbit): > 5,000 mg/kg

**Aluminium hydroxide:**

Acute oral toxicity	:	LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 423 Assessment: The substance or mixture has no acute oral toxicity
Acute inhalation toxicity	:	LC50 (Rat): > 5.09 mg/l Exposure time: 4 h Test atmosphere: dust/mist Assessment: The substance or mixture has no acute inhalation toxicity Remarks: Based on data from similar materials

**Aluminum oxide:**

Acute oral toxicity	:	LD50 (Rat): > 10,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): > 5.09 mg/l Exposure time: 4 h Test atmosphere: dust/mist

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue:
17.0	2025/03/12	1329447-00054	2025/01/22
			Date of first issue: 2017/02/27

---

Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity  
Remarks: Based on data from similar materials

### 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

No data available

### Components:

#### Titanium dioxide:

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

#### Silicon dioxide, amorphous:

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

#### Aluminium hydroxide:

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

#### Aluminum oxide:

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

### Trimethylolpropane:

Species : Rabbit  
Result : No skin irritation

### Serious eye damage/eye irritation

No data available

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

---

### Components:

#### **Titanium dioxide:**

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

#### **Silicon dioxide, amorphous:**

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

#### **Aluminium hydroxide:**

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

#### **Aluminum oxide:**

Species	:	Rabbit
Result	:	No eye irritation

#### **Trimethylolpropane:**

Species	:	Rabbit
Result	:	No eye irritation

### **Respiratory or skin sensitisation**

#### **Respiratory sensitisation**

No data available

#### **Skin sensitisation**

No data available

### 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

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

---

Exposure routes : Inhalation  
Species : Mouse  
Result : negative

Exposure routes : Inhalation  
Species : Humans  
Result : negative

### Aluminium hydroxide:

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

### Aluminum oxide:

Exposure routes : Skin contact  
Species : Guinea pig  
Result : negative

### Trimethylolpropane:

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

### Carcinogenicity

No data available

### 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

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

---

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:**

No data available

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
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#### **Silicon dioxide, amorphous:**

No data available

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

Carcinogenicity - Assessment	:	Weight of evidence does not support classification as a carcinogen
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# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

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### Aluminium hydroxide:

No data available

Species	: Rat
Application Route	: inhalation (dust/mist/fume)
Exposure time	: 86 weeks
Result	: negative
Remarks	: Based on data from similar materials

### Aluminum oxide:

No data available

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

No data available

### Germ cell mutagenicity

No data available

### Components:

#### Titanium dioxide:

No data available

Genotoxicity in vitro	: Test Type: Bacterial reverse mutation assay (AMES) Method: OECD Test Guideline 471 Result: negative
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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 Application Route: intratracheal Method: OECD Test Guideline 489 Result: negative
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Test Type: Mammalian erythrocyte micronucleus test (in vivo)

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

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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.

### Silicon dioxide, amorphous:

No data available

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

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow  
cytogenetic test, chromosomal analysis)  
Species: Rat  
Application Route: Ingestion  
Result: negative

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

### Aluminium hydroxide:

No data available

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

Test Type: Chromosome aberration test in vitro

Result: positive

Remarks: Based on data from similar materials

Test Type: DNA damage and repair, unscheduled DNA syn-

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

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thesis in mammalian cells (in vitro)  
Result: equivocal  
Remarks: Based on data from similar materials

Test Type: in vitro micronucleus test  
Result: positive  
Remarks: Based on data from similar materials

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

### Aluminum oxide:

No data available

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

### Trimethylolpropane:

No data available

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

### Reproductive toxicity

No data available

### Components:

#### Titanium dioxide:

No data available

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 reproductive toxicity

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

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### Silicon dioxide, amorphous:

No data available

Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative
Reproductive toxicity - Assessment	: Weight of evidence does not support classification for reproductive toxicity

### Aluminium hydroxide:

No data available

Effects on fertility	: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test Species: Rat Application Route: Ingestion Method: OECD Test Guideline 422 Result: negative Remarks: Based on data from similar materials
Effects on foetal development	: Test Type: Embryo-foetal development Species: Rat Application Route: Ingestion Result: negative

### Aluminum oxide:

No data available

Reproductive toxicity - Assessment	: Weight of evidence does not support classification for reproductive toxicity, Based on data from similar materials
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### Trimethylolpropane:

Suspected of damaging fertility or the unborn child.

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

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

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essment

fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

### STOT - single exposure

No data available

#### 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

No data available

#### 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.

##### **Aluminum oxide:**

Assessment : No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.

### Repeated dose toxicity

#### Components:

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

Species : Rat, male and female

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

---

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

### Silicon dioxide, amorphous:

Species : Rat  
NOAEL : 1.3 mg/m3  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 13 Weeks

### Aluminium hydroxide:

Species : Rat  
NOAEL : > 100 mg/kg  
Application Route : Ingestion  
Exposure time : 364 Days  
Method : OECD Test Guideline 426  
Remarks : Based on data from similar materials

Species : Rat  
NOAEL : > 0.2 mg/kg  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 12 Months  
Remarks : Based on data from similar materials

### Aluminum oxide:

Species : Rat  
NOAEL : 141 mg/kg  
LOAEL : > 141 mg/kg  
Application Route : Ingestion  
Exposure time : 28 d

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

Remarks : No significant adverse effects were reported  
Based on data from similar materials

Species : Rat  
NOAEL : 0.070 mg/l  
LOAEL : > 0.07 mg/l  
Application Route : inhalation (dust/mist/fume)  
Exposure time : 180 d  
Method : OECD Test Guideline 413  
Remarks : No significant adverse effects were reported  
Based on data from similar materials

### Trimethylolpropane:

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

### Aspiration toxicity

No data available

### Components:

#### Titanium dioxide:

No aspiration toxicity classification

### Experience with human exposure

No data available

### Toxicology, Metabolism, Distribution

No data available

### Neurological effects

No data available

### Further information

No data available

## 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  
  
LC50 (Marine species): > 10,000 mg/l

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
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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

### Silicon dioxide, amorphous:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 10,000 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 1,000 mg/l  
Exposure time: 24 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 10,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

NOEC (Desmodesmus subspicatus (green algae)): 10,000 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: Based on data from similar materials

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
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### Aluminium hydroxide:

Toxicity to fish	: LL50 (Salmo trutta (brown trout)): > 100 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EL50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	: EL50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 96 h

### Aluminum oxide:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): Exposure time: 96 h Remarks: No toxicity at the limit of solubility Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates	: LC50 (Ceriodaphnia dubia (water flea)): Exposure time: 48 h Remarks: No toxicity at the limit of solubility Based on data from similar materials
Toxicity to algae/aquatic plants	: EC50 (Pseudokirchneriella subcapitata (green algae)): Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility Based on data from similar materials  NOEC (Pseudokirchneriella subcapitata (green algae)): Exposure time: 72 h Method: OECD Test Guideline 201 Remarks: No toxicity at the limit of solubility
Toxicity to fish (Chronic toxicity)	: NOEC (Pimephales promelas (fathead minnow)): Exposure time: 7 d Remarks: No toxicity at the limit of solubility Based on data from similar materials
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC (Daphnia magna (Water flea)): Exposure time: 21 d Method: OECD Test Guideline 211 Remarks: No toxicity at the limit of solubility Based on data from similar materials

### Ecotoxicology Assessment

Acute aquatic toxicity	: No toxicity at the limit of solubility
Chronic aquatic toxicity	: No toxicity at the limit of solubility

### Trimethylolpropane:

Toxicity to fish	: LC50 (Oryzias latipes (Orange-red killifish)): > 1,000 mg/l
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# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue:
17.0	2025/03/12	1329447-00054	2025/01/22
			Date of first issue: 2017/02/27

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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:

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

##### Aluminum oxide:

Bioaccumulation : Remarks: The product may be accumulated in organisms.  
Based on data from similar materials

##### Trimethylolpropane:

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

### Mobility in soil

No data available

### Other adverse effects

No data available

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
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### 13. DISPOSAL CONSIDERATIONS

#### Disposal methods

Waste from residues : Dispose of contents and container according to wastes control act.

Do not dispose of waste into sewer.

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.

#### Disposal precautions

Dispose of contents and container according to wastes control act.

### 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  
Environmentally hazardous : no

##### 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  
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 : no

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

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

Not applicable for product as supplied.

### National Regulations

Refer to section 15 for specific national regulation.

### Special precautions for user

Not applicable

## 15. REGULATORY INFORMATION

### National regulatory information

#### Regulation under the Occupational Safety and Health Act

#### Harmful Substances Prohibited from Manufacturing

Not applicable

#### Harmful Substances Required Permission for Manufacture

Not applicable

#### Harmful Agents to be kept below Occupational Exposure Limits

Chemical name	CAS-No.
Titanium dioxide	13463-67-7
Aluminum (Soluble salts)	21645-51-2
α-Alumina	1344-28-1

#### Harmful Agents Required to be kept below Permission Levels

Not applicable

#### Hazardous substances requiring management

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %
Aluminum and its compounds	21645-51-2	>= 1 %

#### Special Management Materials

Not applicable

#### Controlled Substances Subject to Environment Monitoring

Chemical name	CAS-No.	Threshold limits (%)
Titanium dioxide	13463-67-7	>= 1 %
Silica	7631-86-9	
Aluminum and its compounds	21645-51-2	>= 1 %
Aluminum and its compounds	1344-28-1	>= 1 %
Mineral dusts	1344-28-1	

#### Controlled Substances Subject to Health Examination

Chemical name	CAS-No.	Threshold limits (%)
Mineral dusts	13463-67-7	
Aluminum and its compounds	21645-51-2	>= 1 %
Aluminum and its compounds	1344-28-1	>= 1 %
Mineral dusts	1344-28-1	

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
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### Hazardous Substances Subject to Process Safety Management (PSM) Reporting Obligation

Not applicable

### K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 1)

Not applicable

### K-OSHA Hazardous Substances (Occupational Safety and Health Regulations, Table 9)

Not applicable

### Regulation under the Chemicals Control Act

#### Toxic Chemicals

Not applicable

#### Restricted Chemicals

Not applicable

#### Prohibited Chemicals

Not applicable

### Toxic Release Inventory

Chemical name	CAS-No.	Group	Threshold limits (%)
Aluminium and its compounds	21645-51-2	Group II	>= 1 %

### Accident Precaution Chemicals

Not applicable

### Dangerous Substances Safety Management Act

Not Applicable to Dangerous Materials

### Wastes Control Act

Industrial general wastes

Follow article 13 of the act to dispose the product waste

## 16. OTHER INFORMATION

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

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

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written agreement covering such use. For further information, please contact your Chemours representative.  
In the manufacture of titanium dioxide, product is packaged at temperatures of approximately 100 to 120°C (212 to 248°F). When pigment is shipped shortly after manufacture, it may stay hot for a very long time depending on ambient temperatures and inventory storage practices. Use caution while handling hot pigment to prevent burns to personnel. Use caution in solvent applications to prevent ignition of solvent.

### 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/>

Issuing date : 2017/02/27

### Revision number and date

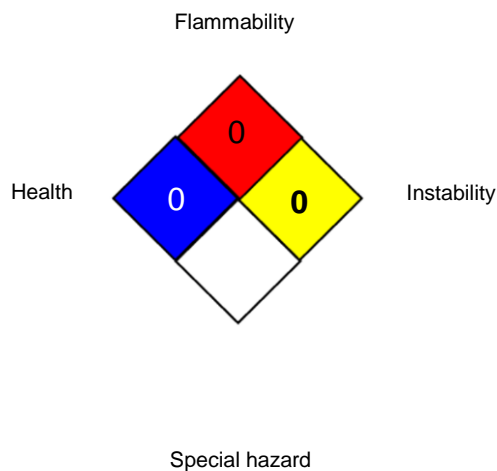
Number of Revision : 53

Revision Date : 2025/03/12

Items where changes have been made to the previous version are highlighted in the body of this document by two vertical lines.

Date format : yyyy/mm/dd

### NFPA:



### Full text of other abbreviations

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version	Revision Date:	SDS Number (Internal):	Date of last issue: 2025/01/22
17.0	2025/03/12	1329447-00054	Date of first issue: 2017/02/27

KR OEL : Harmful Agents to be kept below Occupational Exposure Limits

ACGIH / TWA : 8-hour, time-weighted average

KR OEL / TWA : Time Weighted Average

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.

KR / EN

## SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
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Decree of the Ministry of Environment Under the Act on the Registration and Evaluation, Etc. of Chemical Substances [Annex No. 26]

## Chemical Safety Information(Risk Information)

Provider	Company name: Chemours Korea Inc.	Business Reg. No.: 220-88-81323		
	Name : Rim Young Kyu (Company Rep.)	Name of Person in charge and Contact no.: Kwack Woo Yong (email : tyler.kwack@chemours.com)		
	Address : 12FL, Majestarcity Tower 1, 12, Seocho-daero 38-gil, Seocho-gu, Seoul, Korea (Business location)			

Chemical information	Chemical name(generic name)	Titanium dioxide		
	Identification No. (CAS No., etc.)	13463-667-7	Trade name	
	Registration number(※ May be omitted for hazardous substance which is not registered)	04-2112-03750	Usage	10. coloring agent
	Whether hazardous chemical substance is contained	[ ] Toxic substance    [ ] Authorization substance    [ ] Restricted substance    [ ] Prohibited substance [ ] designated substance according to Article 10, Para graph 2, Item1 of K-REACH by MOE [ ] classified substance due to presence of physical risk[ ], health hazard[ ], environmental hazard[ ] accord ing to annex 7 of K-REACH		

※ In the case of trade secret under Article 2, Paragraph 2 of the Unfair Competition Prevention and Trade Secret Act, such as the relevant chemical substance's chemical composition and amount of the chemical substance contained, it's required to mark relevant information is trade secret

	Item	Description
Risk information	usage (identified usage in supply chain)	<ul style="list-style-type: none"> <li>Industrial/expert/consumer usage : 10. Coloring agent - coloring agent mixed in plastic, paper, ink, paint or fabric in order to make color</li> </ul>

## SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version  
17.0Revision Date:  
2025/03/12SDS Number (Internal):  
1329447-00054Date of last issue: 2025/01/22  
Date of first issue: 2017/02/27

Manufacturing process(working environment)	hours and frequency of use	<ul style="list-style-type: none"> <li>Annual used days : about 300 days (continuously• frequently)</li> </ul>
	used amount per hour of task	<ul style="list-style-type: none"> <li>Daily average usage amount : about 85,500 kg/day</li> </ul>
	other working conditions related to relevant use	<ul style="list-style-type: none"> <li>Non-dispersive use: non-dispersive exposure could be occurred in the process of raw material feeding, however worker work after they wear proper PPE for prevention of exposure and work in a place where scrubber and local ventilation equipment is placed in order to minimize exposure</li> </ul>
measures to reduce risk	reduction measure regarding human exposure(including exposure rout)	<ul style="list-style-type: none"> <li>Dermal, inhalation :when worker use registered substance, they wear PPE(working cloth, protection mask of which protection rate is 90% or more, industrial glove and protection glass)</li> </ul>
	reduction measure regarding environmental exposure(including exposure rout)	<ul style="list-style-type: none"> <li>Air: not applicable</li> <li>Water : not applicable</li> <li>Earth : not applicable</li> <li>Others : not applicable</li> </ul>
	Waste management measures	<ul style="list-style-type: none"> <li>Not applicable</li> </ul>
exposure information and instruction for downstream user	estimated exposure under optimal working condition	<ul style="list-style-type: none"> <li>No effectiveness level for worker Dermal : 9.62 mg/kg/day, inhalation : 0.04221mg/m3</li> </ul>

Decree of the Ministry of Environment Under the Act on the Registration and Evaluation, Etc. of Chemical Substances [Annex No. 26]

## Chemical Safety Information(Risk Information)

Provider	Company name: Chemours Korea Inc.	Business Reg. No.: 220-88-81323
	Name : Rim Young Kyu (Company Rep.)	Name of Person in charge and Contact no.: Kwack Woo Yong

## SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0      Revision Date: 2025/03/12      SDS Number (Internal): 1329447-00054      Date of last issue: 2025/01/22  
Date of first issue: 2017/02/27

		(email : tyler.kwack@chemours.com)		
	Address : 12FL, Majestarcity Tower 1, 12, Seocho-daero 38-gil, Seocho-gu, Seoul, Korea (Business location)			
Chemical information	Chemical name(generic name)	Titanium dioxide		
	Identification No. (CAS No., etc.)	13463-667-7	Trade name	
	Registration number(※ May be omitted for hazardous substance which is not registered)	04-2112-03750	Usage	20. fillers
	Whether hazardous chemical substance is contained	[ ] Toxic substance    [ ] Authorization substance    [ ] Restricted substance    [ ] Prohibited substance [ ] designated substance according to Article 10, Paragraph 2, Item1 of K-REACH by MOE [ ] classified substance due to presence of physical risk[ ], health hazard[ ], environmental hazard[ ] according to annex 7 of K-REACH		

※ In the case of trade secret under Article 2, Paragraph 2 of the Unfair Competition Prevention and Trade Secret Act, such as the relevant chemical substance's chemical composition and amount of the chemical substance contained, it's required to mark relevant information is trade secret

Risk information	Item		Description
	usage (identified usage in supply chain)		<ul style="list-style-type: none"> <li>Industrial/expert/consumer usage : 20. fillers - fillers mixed in plastic, paper, paint or fabric in order to enhance performance of final product</li> </ul>
	Manufacturing process(working environment)	hours and frequency of use	<ul style="list-style-type: none"> <li>Annual used days : about 300 days (continuously• frequently)</li> </ul>
		used amount per hour of task	<ul style="list-style-type: none"> <li>Daily average usage amount : about 85,500 kg/day</li> </ul>
		other working conditions related to relevant use	<ul style="list-style-type: none"> <li>Non-dispersive use: non-dispersive exposure could be occurred in the process of raw material feeding, however worker work after they wear proper PPE for prevention of exposure and work in a place where scrubber and local ventilation equipment is placed in order to minimize exposure</li> </ul>
	measures to	reduction measure	<ul style="list-style-type: none"> <li>Dermal, inhalation :when worker use registered sub-</li> </ul>

# SAFETY DATA SHEET



## Ti-Pure™ TS-6200 Titanium Dioxide Pigment

Version 17.0	Revision Date: 2025/03/12	SDS Number (Internal): 1329447-00054	Date of last issue: 2025/01/22 Date of first issue: 2017/02/27
-----------------	------------------------------	---	---

	reduce risk	regarding human exposure(including exposure rout)	stance, they wear PPE(working cloth, protection mask of which protection rate is 90% or more, industrial glove and protection glass)
		reduction measure regarding environmental exposure(including exposure rout)	<ul style="list-style-type: none"><li>• Air: not applicable</li><li>• Water : not applicable</li><li>• Earth : not applicable</li><li>• Others : not applicable</li></ul>
		Waste management measures	<ul style="list-style-type: none"><li>• Not applicable</li></ul>
	exposure information and instruction for downstream user	estimated exposure under optimal working condition	<ul style="list-style-type: none"><li>• No effectiveness level for worker Dermal : 9.62 mg/kg/day, inhalation : 0.04221mg/m3</li></ul>