

Versior 5.0	Revision Date: 08/09/2021		DS Number: 560938-00014	Date of last issue: 10/23/2020 Date of first issue: 04/24/2017		
SECTI	ON 1. IDENTIFICATION					
Pr	oduct name	:	Ti-Pure™ TS-6300 Titanium Dioxide Pigment			
Pr	oduct code	:	D15299958			
SI	S-Identcode	:	130000132136			
M	anufacturer or supplier's	deta	ails			
Со	Company name of supplier		The Chemours Company FC, LLC			
Address		:	1007 Market Street Wilmington, DE 19801 United States of America (USA)			
Τe	Telephone		1-844-773-CHEM (outside the U.S. 1-302-773-1000)			
Er	Emergency telephone		Medical emergency: 1-866-595-1473 (outside the U.S. 1-773-2000) ; Transport emergency: +1-800-424-9300 (ou the U.S. +1-703-527-3887)			
Re	commended use of the o	cher	nical and restricti	ons on use		
Re	ecommended use	:	Coloring agent Pigment			
Restrictions on use		:	For industrial use	only.		

### **SECTION 2. HAZARDS IDENTIFICATION**

# GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a hazardous substance or mixture.

#### **GHS label elements**

Not a hazardous substance or mixture.

#### Other hazards

None known.

### SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

### Components

Chemical name	CAS-No.	Concentration (% w/w)
Titanium dioxide	13463-67-7	>= 80 - < 90
Silicon dioxide, amorphous	7631-86-9	>= 5 - < 10
Aluminium hydroxide	21645-51-2	>= 5 - < 10

### **SECTION 4. FIRST AID MEASURES**



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If inhaled		:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.		
In case of skin contact		:	Wash with water and soap as a precaution. Get medical attention if symptoms occur.		
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 if symptoms occur. Rinse mouth thoroughly with water.		
Most important symptoms and effects, both acute and delayed		:	irritant effects		
Protection of first-aiders		:	No special precau	utions are necessary for first aid responders.	
Notes to physician		:	Treat symptomati	cally and supportively.	

### SECTION 5. FIRE-FIGHTING MEASURES

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 prod- ucts	:	Metal oxides
Specific extinguishing meth- ods	:	Use extinguishing measures that are appropriate to local cir- cumstances 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 fire-fighters	:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.

### SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Follow safe handling advice (see section 7) and personal pro- tective equipment recommendations (see section 8).
Environmental precautions	:	Avoid release to the environment.



# Ti-Pure™ TS-6300 Titanium Dioxide Pigment

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		Retain and disp	leakage or spillage if safe to do so. ose of contaminated wash water. s should be advised if significant spillages ained.
Methods and materials for containment and cleaning up		tainer for dispos Local or nationa sal of this mater ployed in the cle which regulation Sections 13 and	cuum up spillage and collect in suitable con- sal. al regulations may apply to releases and dispo- rial, as well as those materials and items em- eanup of releases. You will need to determine hs are applicable. d 15 of this SDS provide information regarding mational requirements.

### SECTION 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	:	Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Take care to prevent spills, waste and minimize release to the environment.
Conditions for safe storage	:	Keep in properly labeled containers. Store in accordance with the particular national regulations.
Materials to avoid	:	No special restrictions on storage with other products.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

Components	CAS-No.	Value type	Control parame-	Basis
		(Form of	ters / Permissible	
		exposure)	concentration	
Titanium dioxide	13463-67-7	TWA (total	15 mg/m <sup>3</sup>	OSHA Z-1
	10400 01 1	`	13 mg/m	
		dust)		
		TWA	10 mg/m <sup>3</sup>	ACGIH
			(Titanium dioxide)	
Silicon dioxide, amorphous	7631-86-9	TWA (Dust)	20 Million par-	OSHA Z-3
			ticles per cubic	
			foot	
			(Silica)	
		TWA (Dust)	80 mg/m3	OSHA Z-3
		· · · · ·	/ %SiO2	
			(Silica)	
		TWA	6 mg/m <sup>3</sup>	NIOSH REL
			(Silica)	
Aluminium hydroxide	21645-51-2	TWA (Res-	1 mg/m <sup>3</sup>	ACGIH



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				pirable par- ticulate mat- ter)	(Aluminum)	
Eng	ineering measures	:			especially in confined concentrations.	l areas.
Per	sonal protective equip	ment				
Res	piratory protection	:	maintain vapo concentrations unknown, app Follow OSHA use NIOSH/M by air purifying dous chemica respirator if th exposure leve	r exposures bel s are above reco ropriate respirat respirator regula SHA approved o respirators aga l is limited. Use ere is any poten ls are unknown	ntilation is recommended lim ow recommended lim ommended limits or a tory protection should ations (29 CFR 1910 respirators. Protection ainst exposure to any a positive pressure a tial for uncontrolled r or any other circums a may not provide ade	hits. Where are d be worn. .134) and n provided v hazar- ir supplied elease, stance
Han	d protection					
F	Remarks	:	Wash hands b	efore breaks ar	nd at the end of work	day.
Eye	protection	:	Wear the follo Safety glasses		protective equipment:	
Skir	and body protection	:	Skin should be	e washed after o	contact.	
Hyg	iene measures	:	eye flushing s king place. When using d			

### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	crystalline
Color	:	white
Odor	:	odorless
Odor Threshold	:	No data available
рН	:	No data available
Melting point/freezing point	:	3,349 °F / 1,843 °C

### SAFETY DATA SHEET



# Ti-Pure<sup>™</sup> TS-6300 Titanium Dioxide Pigment

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Initial I range	poiling point and boiling	:	5,432 °F / 3,000 °	°C
Flash	point	:	Not applicable	
Evapo	ration rate	:	Not applicable	
Flamm	nability (solid, gas)	:	Will not burn	
			Not expected to f	orm explosive dust-air mixtures.
	explosion limit / Upper ability limit	:	No data available	
	explosion limit / Lower ability limit	:	No data available	
Vapor	pressure	:	Not applicable	
Relativ	ve vapor density	:	Not applicable	
Relativ	ve density	:	3.6 - 3.8	
	lity(ies) ater solubility	:	insoluble	
	on coefficient: n- bl/water	:	Not applicable	
Autoig	nition temperature	:	No data available	)
Decon	nposition temperature	:	The substance of	mixture is not classified self-reactive.
Viscos Viscos	sity cosity, kinematic	:	Not applicable	
Explos	sive properties	:	Not explosive	
	ing properties	:		r mixture is not classified as oxidizing.
Particl	e 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 reac- tions	:	None known.
Conditions to avoid	:	None known.



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Incom	patible materials	: None.	
Hazar produ	dous decomposition	: No hazardo	ous decomposition products are known.
ECTION	11. TOXICOLOGICAL	INFORMATION	
Inforr	nation on likely route	s of exposure	
Ingest	contact tion ontact		
	e toxicity assified based on avai	able information.	
Comp	oonents:		
Titani	ium dioxide:		
Acute	oral toxicity	: LD50 (Rat): Method: OE	> 5,000 mg/kg CD Test Guideline 425
Acute	inhalation toxicity		
Acute	dermal toxicity	Method: Exp	y estimate (Rat): > 2,000 mg/kg pert judgment t: The substance or mixture has no acute dermal
Silico	n dioxide, amorphou	S:	
UL.	oral toxicity	: LD50 (Rat):	> 5,000 mg/kg CD Test Guideline 401
Acute	inhalation toxicity		
Acute	dermal toxicity	: LD50 (Rabb	it): > 5,000 mg/kg
Alum	inium hydroxide:		
	oral toxicity	Method: OE	> 2,000 mg/kg CD Test Guideline 423 :: The substance or mixture has no acute oral tox
Acute	inhalation toxicity	: LC50 (Rat): Exposure tir Test atmosp	



# Ti-Pure™ TS-6300 Titanium Dioxide Pigment

ersion .0	Revision Date: 08/09/2021	SDS Number 1560938-000		Date of last issue: 10/23/2020 Date of first issue: 04/24/2017
		tion toxicit	y	substance or mixture has no acute inhala- on data from similar materials
Skin	corrosion/irritation			
Not c	lassified based on ava	ilable information	).	
Com	ponents:			
11				
UL I	ium dioxide:	. Dahhit		
Speci Metho		: Rabbit : OECD Te	st Guide	aline 404
Resu		: No skin irr		
Silico	on dioxide, amorpho	us.		
Speci	· · · ·	: Rabbit		
Metho		: OECD Te	st Guide	eline 404
Resu	lt	: No skin in	ritation	
Alum	inium hydroxide:			
Speci	ies	: Rabbit		
Metho		: OECD Te		eline 404
Resu	lt	: No skin irr	ritation	
Serio	ous eye damage/eye i	rritation		
Not c	lassified based on ava	ilable information	).	
Com	ponents:			
11	ium dioxide:			
Speci	ies	: Rabbit		
Resu		: No eye irr		
Metho	od	: OECD Te	st Guide	eline 405
Silico	on dioxide, amorpho	us:		
Speci		: Rabbit		
Resu		: No eye irr		
Metho	DO	: OECD Te	st Guide	eline 405
Alum	inium hydroxide:			
Speci	ies	: Rabbit		
Resu		: No eye irr		
Metho	bd	: OECD Te	st Guide	eline 405
Resp	iratory or skin sensi	tization		
Skin	sensitization			
	lassified based on ava	ilable information	).	
	iratory sensitization			
O	manury sensilization			

### Respiratory sensitization

Not classified based on available information.



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Com	ponents:		
Test	es of exposure ies od	: Buehler Test : Skin contact : Guinea pig : OECD Test Gu : negative	ideline 406
Test Route Spec Metho Resu	es of exposure ies od	: Local lymph no : Skin contact : Mouse : OECD Test Gu : negative	de assay (LLNA) ideline 429
Route Spec Resu		: Inhalation : Mouse : negative	
Route Spec Resu		: Inhalation : Humans : negative	
Test	es of exposure ies od	: Maximization T : Skin contact : Guinea pig : OECD Test Gu : negative	
Not c	n cell mutagenicity lassified based on av	ailable information.	
11	<u>ponents:</u>		
	ium dioxide: toxicity in vitro		terial reverse mutation assay (AMES) Test Guideline 471 e
			itro mammalian cell gene mutation test Test Guideline 476 e
			omosome aberration test in vitro Test Guideline 473 e
		Test Type: com Method: OPPT Result: positive	S 870.5140
Geno	toxicity in vivo	: Test Type: In vi Species: Rat	ivo mammalian alkaline comet assay



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			oute: intratracheal D Test Guideline 489 ve	
		cytogenetic as Species: Rat Application Ro	oute: Ingestion D Test Guideline 474	
		Test Type: Mutagenicity (in vivo mammalian b cytogenetic test, chromosomal analysis) Species: Mouse Application Route: Intraperitoneal injection Method: OECD Test Guideline 475 Result: negative		
		Species: Mous Application Ro	oute: Intravenous injection D Test Guideline 488	
	n cell mutagenicity - ssment	: Weight of evid cell mutagen.	ence does not support classification as a germ	
Silico	on dioxide, amorphou	IS:		
Gend	toxicity in vitro		cterial reverse mutation assay (AMES) D Test Guideline 471 ve	
Geno	toxicity in vivo			
	n cell mutagenicity - ssment	: Weight of evid cell mutagen.	ence does not support classification as a germ	
Ш́ашт	iinium hydroxide:			
<b>L.L</b>	otoxicity in vitro		vitro mammalian cell gene mutation test D Test Guideline 476 ve	
		Result: positiv	romosome aberration test in vitro e ed on data from similar materials	
		thesis in mam Result: equivo		
			ed on data from similar materials	
		9 / 19		



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		Result: positive	tro micronucleus test d on data from similar materials
Gen	otoxicity in vivo	cytogenetic ass Species: Rat Application Rou	ite: Ingestion Test Guideline 474
Care	cinogenicity		
	classified based on avai	lable information.	
	<u>duct:</u> narks	respectively 10 lung fibrosis wa croscopic lung the rats expose lung overloadin anisms. In further studie under particle of cies, the rat, an pulmonary infla was also found rodent species. In February 200 pertaining to Gr based upon ina evidence in exp titanium dioxide generation of tu animal species, sufficient evider The conclusion 20000 TiO2 ind suggest a carci Mortality from of tory diseases, w dust. Based upon all conclude that ti	s of several epidemiology studies on more than ustry workers in Europe and the USA did not nogenic effect of TiO2 dust on the human lung. ther chronic diseases, including other respira- vas also not associated with exposure to TiO2 available study results, Chemours scientists tanium dioxide will not cause lung cancer or ory diseases in humans at concentrations ex-
II	nponents: nium dioxide:		
	cies lication Route osure time	: Rat : inhalation (dust : 2 Years	/mist/fume)



/ersion 5.0	Revision Date: 08/09/2021	SDS Number: 1560938-00014	Date of last issue: 10/23/2020 Date of first issue: 04/24/2017		
Result		: negative			
	cation Route sure time	: Rat : Ingestion : 105 weeks : negative			
	cation Route sure time	: Mouse : Ingestion : 103 weeks : negative			
Carcir ment	nogenicity - Assess-	: Weight of evid cinogen	dence does not support classification as a car-		
Silico	on dioxide, amorphou	5:			
	cation Route sure time	: Rat : Ingestion : 103 weeks : negative			
ment	nogenicity - Assess-	: Weight of evid cinogen	dence does not support classification as a car-		
Speci Applic	cation Route sure time t	: Rat : inhalation (du : 86 weeks : negative : Based on dat	st/mist/fume) a from similar materials		
IARC	Group 2B: P Titanium dio	ossibly carcinogenio kide	c to humans 13463-67-7		
II OSH/		nt of this product pr st of regulated carc	resent at levels greater than or equal to 0.1% is inogens.		
NTP			esent at levels greater than or equal to 0.1% is ted carcinogen by NTP.		
<b>Reproductive toxicity</b> Not classified based on available information. <u>Components:</u>					
<u></u>	<b>ium dioxide:</b> is on fertility	Species: Rat Application R	ne-generation reproduction toxicity study oute: Ingestion D Test Guideline 443 ive		
Effect	s on fetal development	: Test Type: Pr	renatal development toxicity study (teratogenicity)		



Versio 5.0	n Revision Date: 08/09/2021		S Number: 60938-00014	Date of last issue: 10/23/2020 Date of first issue: 04/24/2017
			Species: Rat Application Rou Method: OECD Result: negativ	Test Guideline 414
	eproductive toxicity - As- essment	:	Weight of evide ductive toxicity	ence does not support classification for repro-
−Űs	ilicon dioxide, amorpho	us:		
	ffects on fetal developmer		Test Type: Eml Species: Rat Application Rou Result: negativ	
	eproductive toxicity - As- essment	:	Weight of evide ductive toxicity	ence does not support classification for repro-
Ш́а	luminium hydroxide:			
UL.	ffects on fertility	:	reproduction/de Species: Rat Application Rot Method: OECD Result: negativ	Test Guideline 422
E	ffects on fetal developmer	nt :	Test Type: Eml Species: Rat Application Rou Result: negativ	
S	TOT-single exposure			
	ot classified based on ava	ailable i	nformation.	
<u></u>	omponents:			
	itanium dioxide:			
	outes of exposure ssessment	:		nealth effects observed in animals at concentra- ng/kg bw or less
	outes of exposure ssessment	:		nealth effects observed in animals at concentra- ng/kg bw or less
IID	outos of oxposuro		inhalation (duct	/mict/fumo)

I	Routes of exposure	:	inhalation (dust/mist/fume)
	Assessment	:	No significant health effects observed in animals at concentra-
I			tions of 5.0 mg/l/4h or less

### STOT-repeated exposure

Not classified based on available information.



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Comp	oonents:		
Titani	ium dioxide:		
	es of exposure esment	<ul> <li>Ingestion</li> <li>No significant h tions of 100 mg</li> </ul>	ealth effects observed in animals at concentra- /kg bw or less.
	es of exposure ssment	<ul> <li>inhalation (dust)</li> <li>No significant h tions of 0.2 mg/</li> </ul>	ealth effects observed in animals at concentra-
	es of exposure ssment	<ul> <li>Ingestion</li> <li>No significant h tions of 200 mg</li> </ul>	ealth effects observed in animals at concentra- /kg bw or less.
Repe	ated dose toxicity		
<u>Comp</u>	oonents:		
Titani	ium dioxide:		
	EL EL cation Route sure time od	<ul> <li>Rat, male and fermionic constraints</li> <li>24,000 mg/kg</li> <li>&gt; 24,000 mg/kg</li> <li>Ingestion</li> <li>28 Days</li> <li>OECD Test Guit</li> <li>No significant and the second s</li></ul>	
	EL EL cation Route sure time od	<ul> <li>Rat, male and for</li> <li>0.01 mg/l</li> <li>0.5 mg/l</li> <li>inhalation (dust/ 24 Months</li> <li>OECD Test Gui</li> <li>No significant a</li> </ul>	/mist/fume)
	EL EL cation Route sure time od	<ul> <li>Rat, male and for the second second</li></ul>	
Silico	n dioxide, amorphous	:	
Speci NOAE Applic	es	: Rat : 1.3 mg/m <sup>3</sup> : inhalation (dust/ : 13 Weeks	/mist/fume)
	inium hydroxide:		
Speci NOAE	es	: Rat : >100 mg/kg	



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Applio Expos Metho Rema		 Ingestion 364 Days OECD Test Gu Based on data	ideline 426 from similar materials
	EL cation Route sure time	Rat > 0.2 mg/kg inhalation (dust 12 Months Based on data	t/mist/fume) from similar materials

### 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
		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



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			Method: OECD To NOEC (Skeletone Exposure time: 3 Method: ISO 1025	ma costatum (marine diatom)): 5,600 mg/l d
	dioxide, amorphous			
<b>UL</b>	/ to fish	:	LC50 (Danio rerio Exposure time: 96 Method: OECD Te	
	/ to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 24 Method: OECD Te	
Toxicity plants	/ to algae/aquatic	:	mg/l Exposure time: 72 Method: OECD Te	
			mg/l Exposure time: 72 Method: OECD To	
	nium hydroxide:			
- <b>1</b> ,1,	/ to fish	:	LL50 (Salmo trutta Exposure time: 96	a (brown trout)): > 100 mg/l S h
	/ to daphnia and other invertebrates	:	EL50 (Daphnia m Exposure time: 48	agna (Water flea)): > 100 mg/l 3 h
Toxicity plants	/ to algae/aquatic	:	EL50 (Selenastru Exposure time: 96	m capricornutum (green algae)): > 100 mg/l S h
No data	tence and degradabili a available sumulative potential	ity		
Compo	onents:			
	I <b>m dioxide:</b> umulation	:	Species: Oncorhy Bioconcentration	nchus mykiss (rainbow trout) factor (BCF): 352
	a available			
	adverse effects a available			



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SECTION	13. DISPOSAL CONS	SIDER	ATIONS	
•	osal methods		Dispose of in a	ccordance with local regulations.
		rs should be taken to an approved waste		
				specified: Dispose of as unused product.

### **SECTION 14. TRANSPORT INFORMATION**

#### International Regulations

**UNRTDG** Not regulated as a dangerous good

IATA-DGR Not regulated as a dangerous good

#### IMDG-Code

Not regulated as a dangerous good

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

Not applicable for product as supplied.

#### **Domestic regulation**

**49 CFR** Not regulated as a dangerous good

#### Special precautions for user

Not applicable

### SECTION 15. REGULATORY INFORMATION

### **CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

### SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : N	lo SARA Hazards
--------------------------	-----------------

#### SARA 313

: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### US State Regulations

#### Pennsylvania Right To Know

Titanium dioxide

13463-67-7



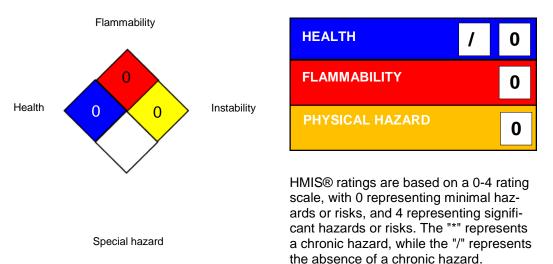
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	Silicon dioxide, an Aluminium hydrox Inorganic metal oy	ide	7631-86-9 21645-51-2 Trade secret		
<b>California Prop. 65</b> WARNING: This product can expose you to chemicals including Titanium dioxide, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.					
	rnia List of Hazardou				
Silicon dioxide, amorphous       7631-86-9         California Permissible Exposure Limits for Chemical Contaminants					
	Titanium dioxide Silicon dioxide, an		13463-67-7 7631-86-9		

### **SECTION 16. OTHER INFORMATION**





HMIS® IV:



Ti-Pure<sup>™</sup> and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC.

Chemours <sup>™</sup> 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<sup>™</sup> 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.

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



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while handling hot pigment to prevent burns to personnel. Use caution in solvent applications to prevent ignition of solvent.

#### Full text of other abbreviations

ACGIH	:	USA. ACGIH Threshold Limit Values (TLV)
NIOSH REL	:	USA. NIOSH Recommended Exposure Limits
OSHA Z-1	:	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim- its for Air Contaminants
OSHA Z-3	:	USA. Occupational Exposure Limits (OSHA) - Table Z-3 Mineral Dusts
ACGIH / TWA	:	8-hour, time-weighted average
NIOSH REL / TWA	:	Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
OSHA Z-1 / TWA	:	8-hour time weighted average
OSHA Z-3 / TWA	:	8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance: 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; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration. Evaluation. Authorisation and Restriction of Chemicals: RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; 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

Sources of key data used to : compile the Material Safety Data Sheet

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/



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

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