

Versi 5.0	on	Revision Date: 08/27/2021	SE 15	DS Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017		
SECT	FION 1	DENTIFICATION					
F	Product	t name	:	Ti-Pure™ R-103 ⁻	Ti-Pure™ R-103 Titanium Dioxide Pigment		
F	Product	t code	:	D10287059			
ç	SDS-Id	entcode	:	130000030905			
r	Manufa	acturer or supplier's o	deta	ails			
(Compa	ny name of supplier	:	The Chemours C	ompany FC, LLC		
/	Addres	S	:	1007 Market Stre Wilmington, DE 1	et 9801 United States of America (USA)		
-	Telepho	one	:	1-844-773-CHEM	(outside the U.S. 1-302-773-1000)		
E	Emerge	ency telephone	:	Medical emergen 773-2000) ; Trar the U.S. +1-703-5	cy: 1-866-595-1473 (outside the U.S. 1-302- nsport emergency: +1-800-424-9300 (outside 527-3887)		
F	Recom	mended use of the c	hen	nical and restriction	ons on use		
F	Recom	mended use	:	Coloring agent Pigment			
F	Restrict	tions on use	:	For industrial use	only.		

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accor 1910.1200)	dan	ce with the OSHA Hazard Communication Standard (29 CFR
Reproductive toxicity	:	Category 2
GHS label elements		
Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.
Precautionary Statements	:	Prevention: P201 Obtain special instructions before use. P202 Do not handle until all safety precautions have been read and understood. P280 Wear protective gloves, protective clothing, eye protection and face protection.



Version 5.0	Revision Date: 08/27/2021	SDS Number: 1575805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
		Response: P308 + P313 IF	exposed or concerned: Get medical attention.
		Storage: P405 Store lock	ed up.
		Disposal: P501 Dispose o disposal plant.	f contents and container to an approved waste
Other None I	hazards known.		

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture	: Mixture
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Components

Chemical name	CAS-No.	Concentration (% w/w)		
Titanium dioxide	13463-67-7	>= 90 - <= 100		
Aluminium hydroxide	21645-51-2	>= 1 - < 5		
Trimethylolpropane	77-99-6	>= 0.1 - < 1		
Actual concentration is withheld as a trade secret				

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice	:	In the case of accident or if you feel unwell, seek medical ad- vice 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 Suspected of damaging fertility. Suspected of damaging the unborn child.



Ver 5.0	sion	Revision Date: 08/27/2021	SE 15	DS Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
	Protection of first-aiders		:	First Aid responde and use the recor when the potentia	ers should pay attention to self-protection, nmended personal protective equipment I for exposure exists (see section 8).
	Notes t	o physician	:	Treat symptomati	cally and supportively.
SEC	CTION 5	. FIRE-FIGHTING ME	ASL	JRES	
	Suitabl	e extinguishing media	:	Not applicable Will not burn	
	Unsuita media	able extinguishing	:	Not applicable Will not burn	
	Specific fighting	c hazards during fire	:	Exposure to comb	oustion products may be a hazard to health.
	Hazard ucts	lous combustion prod-	:	Metal oxides	
	Specific ods	c extinguishing meth-	:	Use extinguishing cumstances and t Use water spray t Remove undamag so. Evacuate area.	measures that are appropriate to local cir- he surrounding environment. o cool unopened containers. ged containers from fire area if it is safe to do
	Special for fire-	l protective equipment fighters	:	In the event of fire Use personal prot	e, wear self-contained breathing apparatus. ective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- tive equipment and emer- gency procedures	:	Use personal protective equipment. Follow safe handling advice (see section 7) and personal pro- tective 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 con- tainer for disposal. Local or national regulations may apply to releases and dispo- sal of this material, as well as those materials and items em- ployed 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



Version 5.0	Revision Date: 08/27/2021	SE 15	DS Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017	
Technical measures		:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.		
Loca	al/Total ventilation	:	Use only with ade	quate ventilation.	
Advice on safe handling		:	Do not swallow. Avoid contact with Avoid prolonged of Handle in accorda practice, based of sessment Take care to prev environment.	n eyes. or repeated contact with skin. ance with good industrial hygiene and safety in the results of the workplace exposure as- ent spills, waste and minimize release to the	
Con	ditions for safe storage	:	Keep in properly I Store in accordan	abeled containers. ce with the particular national regulations.	
Mate	erials to avoid	:	No special restric	tions on storage with other products.	

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parame- ters / Permissible concentration	Basis
Titanium dioxide	13463-67-7	TWA (total dust)	15 mg/m³	OSHA Z-1
		TWA	10 mg/m ³ (Titanium dioxide)	ACGIH
Aluminium hydroxide	21645-51-2	TWA (Res- pirable par- ticulate mat- ter)	1 mg/m ³ (Aluminum)	ACGIH

Engineering measures	:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection	: General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided by air purifying respirators against exposure to any hazar- dous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance
	where air purifying respirators may not provide adequate protection.

Hand protection



Version 5.0	Revision Date: 08/27/2021	SE 15	DS Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
Ма	terial	:	Chemical-resistar	nt gloves
Re	marks	:	Choose gloves to on the concentrat time is not determ For special applic sistance to chemi ves with the glove and at the end of	protect hands against chemicals depending ion specific to place of work. Breakthrough nined for the product. Change gloves often! cations, we recommend clarifying the re- cals of the aforementioned protective glo- e manufacturer. Wash hands before breaks workday.
Еуе рі	rotection	:	Wear the followin Safety glasses	g personal protective equipment:
Skin a	nd body protection	:	Select appropriate resistance data a potential. Skin contact musi clothing (gloves, a	e protective clothing based on chemical nd an assessment of the local exposure t be avoided by using impervious protective aprons, boots, etc).
Hygier	ne measures	:	If exposure to che eye flushing syste king place. When using do no Wash contaminat	emical is likely during typical use, provide ems and safety showers close to the wor- ot eat, drink or smoke. ed clothing before re-use.

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
Initial boiling point and boiling range	:	5,432 °F / 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.



Vers 5.0	sion	Revision Date: 08/27/2021	SD 157	S Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
	Upper o flamma	explosion limit / Upper bility limit	:	No data available	•
	Lower of flamma	explosion limit / Lower bility limit	:	No data available)
	Vapor p	oressure	:	Not applicable	
	Relativ	e vapor density	:	Not applicable	
	Relativ	e density	:	3.6 - 4.3	
	Solubili Wat	ty(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	Not applicable	
	Autoigr	nition temperature	:	No data available	
	Decom	position temperature	:	The substance of	r mixture is not classified self-reactive.
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizii Particle	ng properties e size	:	The substance of No data available	r mixture is not classified as oxidizing.

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.
Incompatible materials	:	None.
Hazardous decomposition products	:	No hazardous decomposition products are known.



Version 5.0	Revision Date: 08/27/2021	SDS Number: 1575805-00013		Date of last issue: 10/22/2020 Date of first issue: 04/27/2017					
SECTION	SECTION 11. TOXICOLOGICAL INFORMATION								
Info Skin Inge Eye	rmation on likely route contact stion contact	es of (exposure						
Acut Not o	t e toxicity classified based on ava	ilable	information.						
Com	ponents:								
Titar	nium dioxide:								
Acut	e oral toxicity	:	LD50 (Rat): > 5,0 Method: OECD T	000 mg/kg Test Guideline 425					
Acut	e inhalation toxicity	:	LC50 (Rat): > 6.8 Exposure time: 4 Test atmosphere Assessment: The tion toxicity	2 mg/l h : dust/mist e substance or mixture has no acute inhala-					
Acut	e dermal toxicity	:	Acute toxicity est Method: Expert ju Assessment: The toxicity	imate (Rat): > 2,000 mg/kg udgment e substance or mixture has no acute dermal					
Alun	ninium hydroxide:								
Acut	e oral toxicity	:	LD50 (Rat): > 2,0 Method: OECD T Assessment: The icity	000 mg/kg Test Guideline 423 A substance or mixture has no acute oral tox-					
Acut	e inhalation toxicity	:	LC50 (Rat): > 5.0 Exposure time: 4 Test atmosphere Assessment: The tion toxicity Remarks: Based	99 mg/l h : dust/mist e substance or mixture has no acute inhala- on data from similar materials					
Trim	ethylolpropane:								
Acut	e oral toxicity	:	LD50 (Rat): > 5,0	000 mg/kg					
Acut	e inhalation toxicity	:	LC50 (Rat): > 0.8 Exposure time: 4 Test atmosphere	35 mg/l h : dust/mist					
Acut	e dermal toxicity	:	LD50 (Rabbit): >	5,000 mg/kg					

Skin corrosion/irritation

Not classified based on available information.



Version 5.0	Revision Date: 08/27/2021	SDS Number: 1575805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
Comp	onents:		
Titaniı Specie Metho Result	u m dioxide: es d	: Rabbit : OECD Test Guid : No skin irritation	eline 404
Alumin Specie Method Result	nium hydroxide: es d	: Rabbit : OECD Test Guid : No skin irritation	eline 404
Trimet Specie Result	t hylolpropane: es	: Rabbit : No skin irritation	
Seriou Not cla <u>Comp</u>	us eye damage/eye in assified based on avail onents:	ritation able information.	
Titaniu Specie Result Metho	u m dioxide: es d	: Rabbit : No eye irritation : OECD Test Guid	eline 405
Alumi Specie Result Method	nium hydroxide: es d	: Rabbit : No eye irritation : OECD Test Guid	eline 405
Trimet Specie Result	t hylolpropane: es	: Rabbit : No eye irritation	
Respir Skin s ∭Not cla	ratory or skin sensiti: ensitization assified based on avail	zation able information.	
Respire Not cla	r <mark>atory sensitization</mark> assified based on avail	able information.	
Comp	onents:		
Titaniu Test T Routes Specie Methoo Result	u m dioxide: ype s of exposure es d	 Buehler Test Skin contact Guinea pig OECD Test Guid negative 	eline 406



Version 5.0	Revision Date: 08/27/2021	SE 15	DS Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
Test T Routes Specie Methoo Result	ype s of exposure ss d		Local lymph node Skin contact Mouse OECD Test Guide negative	assay (LLNA) eline 429
Routes Specie Result	s of exposure es	:	Inhalation Mouse negative	
Routes Specie Result	s of exposure s	:	Inhalation Humans negative	
Alumin Test T Routes Specie Methoo Result	nium hydroxide: ype s of exposure s d		Maximization Tes Skin contact Guinea pig OECD Test Guide negative	t eline 406
Trimet Test T Routes Specie Methoo Result	t hylolpropane: ype s of exposure s d		Local lymph node Skin contact Mouse OECD Test Guide negative	assay (LLNA) eline 429
Germ	cell mutagenicity assified based on availa	able	information.	
<u>Comp</u> Titaniu	<u>onents:</u> um dioxide:			
Genoto	oxicity in vitro	:	Test Type: Bacter Method: OECD To Result: negative	rial reverse mutation assay (AMES) est Guideline 471
			Test Type: In vitro Method: OECD To Result: negative	o mammalian cell gene mutation test est Guideline 476
			Test Type: Chrom Method: OECD To Result: negative	nosome aberration test in vitro est Guideline 473
			Test Type: comet Method: OPPTS & Result: positive	assay 370.5140
Genoto	oxicity in vivo	:	Test Type: In vivo Species: Rat Application Route	mammalian alkaline comet assay : intratracheal



Version 5.0	Revision Date: 08/27/2021	SDS Number: 1575805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
		Method: OE Result: nega	CD Test Guideline 489 ative
		Test Type: N cytogenetic Species: Ra Application I Method: OE Result: nega	Mammalian erythrocyte micronucleus test (in vivo assay) t Route: Ingestion CD Test Guideline 474 ative
		Test Type: N cytogenetic Species: Mo Application N Method: OE Result: nega	Autagenicity (in vivo mammalian bone-marrow test, chromosomal analysis) puse Route: Intraperitoneal injection CD Test Guideline 475 ative
		Test Type: T Species: Mo Application F Method: OE Result: nega	ransgenic rodent germ cell gene mutation assay puse Route: Intravenous injection CD Test Guideline 488 ative
Germ Asse	n cell mutagenicity - ssment	: Weight of ev cell mutager	vidence does not support classification as a germ
Alum	ninium hydroxide:		
Geno	otoxicity in vitro	: Test Type: In Method: OE Result: nega	n vitro mammalian cell gene mutation test CD Test Guideline 476 ative
		Test Type: C Result: posit Remarks: Ba	Chromosome aberration test in vitro tive ased on data from similar materials
		Test Type: L thesis in ma	DNA damage and repair, unscheduled DNA syn- mmalian cells (in vitro)
		Result: equi Remarks: Ba	vocal ased on data from similar materials
		Test Type: ii Result: posit Remarks: Ba	n vitro micronucleus test ive ased on data from similar materials
Geno	otoxicity in vivo	: Test Type: M cytogenetic Species: Ra Application M Method: OE Result: nega	Mammalian erythrocyte micronucleus test (in vivo assay) t Route: Ingestion CD Test Guideline 474 ative
Trime	ethylolpropane:		
Geno	otoxicity in vitro	: Test Type: In Method: OE	n vitro mammalian cell gene mutation test CD Test Guideline 476



Version 5.0	Revision Date: 08/27/2021	SDS Number: 1575805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
		Result: negative	
Carcin Not cla	nogenicity assified based on availa	ble information.	
Produ	ct:		
Remar	rks	 In lifetime inhalatii respectively 10, 5 lung fibrosis was croscopic lung tur the rats exposed lung overloading a anisms. In further studies, under particle ove cies, the rat, and pulmonary inflam was also found to rodent species. In February 2006 pertaining to Grou based upon inade evidence in experi titanium dioxide. I generation of tur animal species, to sufficient evidenc The conclusions of 20000 TiO2 indus suggest a carcino Mortality from oth tory diseases, wa dust. Based upon all av conclude that tital chronic respirator perienced in the v 	on studies rats were exposed for 2 years to to and 250 mg/m3 of respirable TiO2. Slight observed at 50 and 250 mg/m3 levels. Mi- mours were also observed in 13 percent of to 250 mg/m3, an exposure level that caused and impairment of rat lungs clearance mech- these tumours were found to occur only erload conditions in a uniquely sensitive spe- have little or no relevance for humans. The matory response to TiO2 particles exposure be much more severe in rats than in other , IARC has re-evaluated Titanium dioxide as up 2B: "possibly carcinogenic to humans", equate evidence in humans and sufficient rimental animals for the carcinogenicity of IARC evaluation guidelines consider the ours, in 2 different studies within the same o be adequate criteria for an assessment of e. of several epidemiology studies on more than stry workers in Europe and the USA did not ogenic effect of TiO2 dust on the human lung. er chronic diseases, including other respira- s also not associated with exposure to TiO2 vailable study results, Chemours scientists nium dioxide will not cause lung cancer or y diseases in humans at concentrations ex- workplace.
Comp	onents:		
Titaniu	um dioxide:	. Det	
Specie Applica Exposi Result	es ation Route ure time	: Rat : inhalation (dust/m : 2 Years : negative	nist/fume)
Specie Applica Exposi Result	es ation Route ure time	: Rat : Ingestion : 105 weeks : negative	
Specie Applica Exposi	es ation Route ure time	: Mouse : Ingestion : 103 weeks	



Version 5.0	Revision Date: 08/27/2021	SE 15	0S Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
Result		:	negative	
Carcine ment	ogenicity - Assess-	:	Weight of evidenc cinogen	e does not support classification as a car-
Alumir	nium hydroxide:			
Specie Applica Exposu Result Remar	s ation Route ure time ks	: : : :	Rat inhalation (dust/m 86 weeks negative Based on data fro	ist/fume) m similar materials
IARC	Group 2B: Po Titanium diox	ossib ide	ly carcinogenic to I	numans 13463-67-7
OSHA	No compone on OSHA's lis	nt of st of	this product preser regulated carcinog	nt at levels greater than or equal to 0.1% is ens.
NTP	No ingredient identified as a	of t a kno	his product present	at levels greater than or equal to 0.1% is carcinogen by NTP.
Repro Suspect Compo	ductive toxicity cted of damaging fertili onents:	ty. S	suspected of dama	ging the unborn child.
Titaniu	Im dioxide:		Toot Turney One of	energian reproduction toxicity study
Enects	on reminy		Species: Rat Application Route Method: OECD To Result: negative	: Ingestion est Guideline 443
Effects on fetal development		:	Test Type: Prenat Species: Rat Application Route Method: OECD To Result: negative	al development toxicity study (teratogenicity) : Ingestion est Guideline 414
Reproc sessm	ductive toxicity - As- ent	:	Weight of evidence ductive toxicity	e does not support classification for repro-
Alumir	nium hydroxide:			
Effects	on fertility	:	Test Type: Combiner reproduction/dever Species: Rat Application Route Method: OECD To Result: negative Remarks: Based of	ned repeated dose toxicity study with the elopmental toxicity screening test : Ingestion est Guideline 422 on data from similar materials
Effects	on fetal development	:	Test Type: Embry Species: Rat	o-fetal development



Ti-Pure™ R-103 Titanium Dioxide Pigment

Version 5.0	Revision Date: 08/27/2021	SE 15	DS Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017		
			Application Route Result: negative	: Ingestion		
Trime	ethylolpropane:					
Effec	s on fertility	:	Test Type: Two-g Species: Rat Application Route Result: positive	eneration reproduction toxicity study : Ingestion		
Effec	Effects on fetal development		Species: Rat Application Route: Ingestion Method: OECD Test Guideline 443 Result: positive			
Repro sessr	Reproductive toxicity - As- sessment		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.			
STO Not c	-single exposure assified based on availa	ıble	information.			
Com	oonents:					
Titan	ium dioxide:					
Route	es of exposure ssment	:	Skin contact No significant hea tions of 2000 mg/l	Ith effects observed in animals at concentra- kg bw or less		
Route Asses	es of exposure ssment	:	 Ingestion No significant health effects observed in animals at conce tions of 2000 mg/kg bw or less 			
Route Asses	es of exposure ssment	:	 inhalation (dust/mist/fume) No significant health effects observed in animals at concertions of 5.0 mg/l/4h or less 			
STO	-repeated exposure					

Not classified based on available information.

Components:

Titanium dioxide: Routes of exposure Assessment	 Ingestion No significant health effects observed in animals at concentra- tions of 100 mg/kg bw or less.
Routes of exposure Assessment	 inhalation (dust/mist/fume) No significant health effects observed in animals at concentrations of 0.2 mg/l/6h/d or less.
Routes of exposure Assessment	 Ingestion No significant health effects observed in animals at concentra- tions of 200 mg/kg bw or less.



Version 5.0	Revision Date: 08/27/2021	SDS Number: 1575805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017	
Repe	ated dose toxicity			
Comp	oonents:			
Titani	ium dioxide:			
Speci NOAE LOAE Applic Expos Metho Rema	es EL EL cation Route sure time od arks	 Rat, male and fe 24,000 mg/kg > 24,000 mg/kg Ingestion 28 Days OECD Test Guic No significant ad 	male leline 407 verse effects were reported	
Speci NOAE LOAE Applic Expos Metho Rema	es EL EL cation Route sure time od arks	 Rat, male and fe 0.01 mg/l 0.5 mg/l inhalation (dust/r 24 Months OECD Test Guid No significant ad 	male nist/fume) leline 453 verse effects were reported	
Speci NOAE LOAE Applic Expos Metho Rema	es EL EL cation Route sure time od arks	 Rat, male and female 962 mg/kg > 962 mg/kg Ingestion 90 Days OECD Test Guideline 408 No significant adverse effects were reported 		
Alum	inium hvdroxide:			
Speci NOAE Applic Expos Metho Rema	es EL cation Route sure time od arks	: Rat : > 100 mg/kg : Ingestion : 364 Days : OECD Test Guic : Based on data fr	leline 426 om similar materials	
Speci NOAE Applic Expos Rema	es EL cation Route sure time arks	: Rat : > 0.2 mg/kg : inhalation (dust/r : 12 Months : Based on data fr	nist/fume) om similar materials	
Trime	ethylolpropane:			
Speci NOAE Applic Expos	es EL cation Route sure time	: Rat : 67 mg/kg : Ingestion : 90 Days		

Aspiration toxicity

Not classified based on available information.



of first issue: 04/27/2017
ŋ/l
ideline 203
> 10,000 mg/l
ideline 203
tar flac) > 1.000 mg/l
ter fiea)). > 1,000 ffig/f
ideline 202
fied): > 1,000 mg/l
ideline 202
ella subcapitata (green algae)): > 100
ideline 201
statum (marine diatom)): > 10,000 mg/l
ella subcapitata (green algae)): > 100
ideline 201
statum (marine diatom)): 5,600 mg/l
vn trout)): > 100 mg/l
Water flea)): > 100 mg/l



Ver 5.0	sion	Revision Date: 08/27/2021	SD 15	S Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017
	Toxicity to algae/aquatic plants		:	EL50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 96 h	
	Trimet	nylolpropane:			
	Toxicity	to fish	:	LC50 (Oryzias lati Exposure time: 96	pes (Orange-red killifish)): > 1,000 mg/l h
	Toxicity aquatic	to daphnia and other invertebrates	:	EC50 (Daphnia m Exposure time: 48	agna (Water flea)): 13,000 mg/l h
	Toxicity plants	to algae/aquatic	:	EC50 (Pseudokiro 1,000 mg/l Exposure time: 72	hneriella subcapitata (green algae)): > h
	Toxicity aquatic ic toxici	to daphnia and other invertebrates (Chron- ty)	:	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	
L	Persist	ence and degradabili	tv		
	0		.,		
	Compo	onents:			
Trimethylolpropane: Biodegradability		:	Result: Not readily biodegradable. Biodegradation: 6 % Exposure time: 28 d		
	Bioacc	umulative potential			
	Compo	onents:			
	Titaniu	m dioxide:			
	Bioaccu	umulation	:	Species: Oncorhy Bioconcentration f	nchus mykiss (rainbow trout) actor (BCF): 352
	Trimetl Partition octanol	n ylolpropane: n coefficient: n- /water	:	log Pow: -0.47	
	Mobilit No data	y in soil a available			
	Other adverse effects No data available				
SEC	SECTION 13. DISPOSAL CONSIDERATIONS				

Disposal methods

Waste from residues

: Dispose of in accordance with local regulations.



Version	Revision Date:	SDS Number:	Date of last issue: 10/22/2020			
5.0	08/27/2021	1575805-00013	Date of first issue: 04/27/2017			
Co	ntaminated packaging	: Empty containers handling site for If not otherwise s	s should be taken to an approved waste recycling or disposal. specified: Dispose of as unused product.			
SECTIC	SECTION 14. TRANSPORT INFORMATION					
Inte	ernational Regulations					
UN	UNRTDG					
No	Not regulated as a dangerous good					
IAT	IATA-DGR					
No	Not regulated as a dangerous good					
IMI	IMDG-Code					
No	Not regulated as a dangerous good					
Tra	ansport in bulk according	to Annex II of MARI	POL 73/78 and the IBC Code			
No	t 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	:	Reproductive toxicity
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 Inorganic metal oxide

13463-67-7 Trade secret



Version	Revision Date:	SDS Number:	Date of last issue: 10/22/2020
5.0	08/27/2021	1575805-00013	Date of first issue: 04/27/2017

California Prop. 65

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.

California Permissible Exposure Limits for Chemical Contaminants

Titanium dioxide

13463-67-7

SECTION 16. 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.

An electrostatic charge can potentially build up when pouring or conveying product from plastic bags. Do not use plastic bags in the presence of flammable or explosive vapors.

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.

Full text of other abbreviations

ACGIH

USA. ACGIH Threshold Limit Values (TLV)



Version 5.0	Revision Date: 08/27/2021	SE 15	0S Number: 75805-00013	Date of last issue: 10/22/2020 Date of first issue: 04/27/2017	
OSHA 2	Z-1	:	USA. Occupationa its for Air Contami	al Exposure Limits (OSHA) - Table Z-1 Lim- inants	
ACGIH / TWA OSHA Z-1 / TWA		:	8-hour, time-weighted average8-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	:	١r
compile the Material Safety		е
Data Sheet		С

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

Revision Date : 08/27/2021

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

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



Version	Revision Date:	SDS Number:	Date of last issue: 10/22/2020
5.0	08/27/2021	1575805-00013	Date of first issue: 04/27/2017

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.

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