Safety Data Sheet	
	Chemours [™]
Ti-Pure [™] Titanium D	Dioxide Pigment - Plastics Grades
Version 4.0	
Revision Date 01/20/2016	Ref. 15000002100
This SDS adheres to the stand requirements in other countrie	dards and regulatory requirements of the United States and may not meet the regulatory s.
SECTION 1. PRODUCT AND	COMPANY IDENTIFICATION
Product name Product Grade/Type	: Ti-Pure [™] Titanium Dioxide Pigment - Plastics Grades : R-101, R-103, R-104, R-105, R-108, R-350
Product Use	: Colouring agent, Pigment, For industrial use only.
Restrictions on use Manufacturer/Supplier	 Do not use product for anything outside of the above specified uses The Chemours Company FC, LLC 1007 Market Street Wilmington, DE 19899 United States of America
Product Information Medical Emergency Transport Emergency	 1-844-773-CHEM (outside the U.S. 1-302-773-1000) 1-866-595-1473 (outside the U.S. 1-302-773-2000) CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)
SECTION 2. HAZARDS IDEN	TIFICATION
Not classified as a hazard (OSHA) Hazard Commun	dous substance or mixture according to the Occupational Safety and Health Administration nication Standard 2012.
	se mechanical irritation or drying of the skin., Dust contact with the eyes can lead to cause nose, throat, and lung irritation.
SECTION 3. COMPOSITION/	INFORMATION ON INGREDIENTS
	1 / 11



Version 4.0

Revision Date 01/20/2016

Ref. 15000002100

463-67-7	90 - 99 %
645-51-2	0 - 5 %
31-86-9	0 - 4 %
6	45-51-2

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

SECTION 4. FIRST AID MEASURES

General advice	:	No hazards which require special first aid measures.
Inhalation	:	Remove person to fresh air. If signs/symptoms continue, get medical attention.
Skin contact	:	Wash off with soap and water.
Eye contact	:	Rinse with plenty of water.
Ingestion	:	No specific intervention is indicated. Consult a physician if necessary.
Most important symptoms/effects, acute and delayed	:	irritant effects
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
Notes to physician	:	No special protective equipment required. No specific intervention is indicated.
		2/11

Safety Data Sheet	
	Chemours"
ri-Pure [™] Titanium Dioxi	ide Pigment - Plastics Grades
ersion 4.0	
Revision Date 01/20/2016	Ref. 15000002100
ECTION 5. FIREFIGHTING MEAS	SURES
Suitable extinguishing media	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	: None known.
Specific hazards	: Not a fire or explosion hazard.
Special protective equipment for firefighters	: No special protective equipment required.
Further information	: The product itself does not burn.
	ASE MEASURES G MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up ROTECTIVE EQUIPMENT during clean-up.
Safeguards (Personnel)	: Avoid breathing dust.
Environmental precautions	: Do not flush into surface water or sanitary sewer system.
Spill Cleanup	: Pick up and arrange disposal without creating dust. After cleaning, flush away traces with water.
Accidental Release Measures	: For disposal considerations see section 13.
ECTION 7. HANDLING AND STO	DRAGE
Handling (Personnel)	: Avoid breathing dust. In the manufacture of titanium dioxide, product is packaged at temperatures



Version 4.0

Revision Date 01/20/2016	Ref. 15000002100
Handling (Physical Aspects)	 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. Wash hands before breaks and at the end of workday. 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. This is a fully oxidized mineral product. As such it cannot support combustion or participate in a dust explosion.
Dust explosion class	
Dust explosion class	: Not applicable
Storage	: Keep container tightly closed in a dry and well-ventilated place.
Storage period	: No applicable data available.
Storage temperature	: No applicable data available.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	:	Use sufficient ventilation to keep employee exposure below recommended limits.
Personal protective equipment Respiratory protection	:	When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.
Hand protection	:	Additional protection: Gloves
Eye protection	:	Safety glasses with side-shields
Skin and body protection	:	No personal body protection normally required.
Protective measures	:	No other specific measures identified.
Exposure Guidelines		
		4 / 11



ion 4.0	0	nt - Plastics (
evision Date 01/20/2016		Ref. 150000	002100
Exposure Limit Values			
Exposure Limit values			
Titanium dioxide Permissible	(OSHA)	15 mg/m3	8 hr. TWA Total dust.
exposure limit: TLV	(ACGIH)	10 mg/m3	TWA
CTION 9. PHYSICAL AND C	HEMICAL PROPE	ERTIES	
Appearance			
Physical state Form	: solid		
Color	: crystalline : white		
Odor	: odourless		
Odor Odor threshold	: odourless : Not applica	ble	
Odor threshold	: Not applica : Not applica : Melting poi	ble nt	
Odor threshold pH Melting point/freezing point	: Not applica : Not applica : Melting poi 1,843 °C (3	ble nt 5,349 °F)	
Odor threshold pH	: Not applica : Not applica : Melting poi	ble nt 5,349 °F) nt	
Odor threshold pH Melting point/freezing point	 Not applica Not applica Melting poir 1,843 °C (3 Boiling poir 	ble nt 9,349 °F) nt 5,432 °F)	
Odor threshold pH Melting point/freezing point Boiling point/boiling range	 Not applica Not applica Melting poir 1,843 °C (3) Boiling poir 3,000 °C (5) 	ble nt 5,349 °F) nt 5,432 °F) ash	
Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point	 Not applica Not applica Melting poir 1,843 °C (3) Boiling poir 3,000 °C (5) does not fl Not applica 	ble nt 5,349 °F) nt 5,432 °F) ash	
Odor threshold pH Melting point/freezing point Boiling point/boiling range Flash point Evaporation rate	 Not applica Not applica Melting poir 1,843 °C (3) Boiling poir 3,000 °C (5) does not fl Not applica 	ble nt 3,349 °F) nt 5,432 °F) ash ble ct is not flammable	



Version 4.0

Revision Date 01/20/2016

Ref. 15000002100

Vapor pressure	: Not applicable
Vapor density	: Not applicable
Density	: Not applicable
Specific gravity (Relative density)	: 3.6 - 4.3
Bulk density	: Not applicable
Water solubility	: insoluble
Solubility(ies)	: Not applicable
Partition coefficient: n- octanol/water	: Not applicable
Auto-ignition temperature	: Not applicable
Ignition temperature	: Not applicable
Decomposition temperature	: Not applicable
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable

SECTION 10. STABILITY AND REACTIVITY

Reactivity	: None reasonably foreseeable.
Chemical stability	: Stable
Possibility of hazardous reactions	: None known.
Conditions to avoid	: None known.

6/11



rsion 4.0	
evision Date 01/20/2016	Ref. 15000002100
Incompatible materials : N	lone known.
Hazardous decomposition : N products	lot applicable
ECTION 11. TOXICOLOGICAL INFOR	RMATION
i-Pure [™] Titanium Dioxide Pigment - Pla Dermal LD50	astics Grades : >10,000 mg/kg , Rabbit
Oral LD50	: > 5,000 mg/kg , Rat
Skin irritation	: Slight or no skin irritation, Rabbit
Eye irritation	: Slight or no eye irritation, Rabbit
Sensitisation	: Did not cause sensitisation on laboratory animals., Local lymph node testMouse
	Did not cause sensitisation on laboratory animals., Buehler TestGuinea pig
Repeated dose toxicity	: Oral Rat
	No toxicologically significant effects were found.
	Inhalation Rat
	No toxicologically significant effects were found.
Carcinogenicity	 In lifetime inhalation studies rats were exposed for 2 years to respectively 10, 50 and 250 mg/m3 of respirable TiO2. Slight lung fibrosis was observed at 50 and 250 mg/m3 levels. Microscopic lung tumours were also observed in 13 percent of the rats exposed to 250 mg/m3, 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,



Version 4.0

Revision Date 01/20/2016

Ref. 15000002100

		and have little or no relevance for humans. The pulmonary inflammatory response to TiO2 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 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 TiO2 industry workers in Europe and the USA did not suggest a carcinogenic effect of TiO2 dust on the human lung. Mortality from other chronic diseases, including other respiratory diseases, was also not associated with exposure to TiO2 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.
Mutagenicity		Did not cause genetic damage in animals. Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Reproductive toxicity	:	Animal testing showed no reproductive toxicity.
Teratogenicity	:	Animal testing showed no developmental toxicity.

Carcinogenicity

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the

8/11

Safety Data Sheet							
				C	Che	emours	5™
Ti-Pure [™] Titanium Dioxi	de Pigment	- Plastics G	rades				
Version 4.0							
Revision Date 01/20/2016		Ref. 1500000	02100				
International Agency for Re	esearch on Cance	er (IARC) Monogra	aphs (latest e	edition).			
Material	IARC	NTP	OSH	HA			
Titanium dioxide	2B						
SECTION 12. ECOLOGICAL INFO	RMATION						
Aquatic Toxicity Ti-Pure [™] Titanium Dioxide I 72 h EC50		Grades okirchneriella sub	capitata (gree	en algae	e) > 100 m	g/I	
48 h EC50	: Daphn	ia magna (Water i	flea) > 1,000	mg/l			
Environmental Fate Ti-Pure [™] Titanium Dioxide I Biodegradability	Pigment - Plastics : Pigme	Grades nts are practically	not biodegra	adable.			
Bioaccumulation	: Does r	not bioaccumulate					
SECTION 13. DISPOSAL CONSID	ERATIONS						
Waste disposal methods - Product	: Dispose of in	accordance with lo	ocal regulatio	ons.			
Contaminated packaging	: If recycling is	not practicable, di	spose of in c	complian	ce with loc	al regulations.	
SECTION 14. TRANSPORT INFOR	MATION						
		9 / 11					



Version 4.0

Revision Date 01/20/2016

Ref. 15000002100

Not regulated in transportation by DOT/IMO/IATA.

SECTION 15. REGULATORY INFORMATION

EINECS (EU) Status AICS (AU) Status DSL (CA) Status ENCS (JP) Status KECI (KR) Status PICCS (PH) Status IECSC (CN) Status ISHL (JP) Status NZIOC Status HSNO (NZ) Status TSCA		On the inventory, or in compliance with the inventory On the inventory, or in compliance with the inventory Exempt On the inventory, or in compliance with the inventory
SARA 313 Regulated Chemical(s)	:	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.
PA Right to Know Regulated Chemical(s)	:	Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances): Titanium dioxide, Silicon dioxide, amorphous
NJ Right to Know Regulated Chemical(s)	:	Substances on the New Jersey Workplace Hazardous Substance List present at a concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens): Titanium dioxide, Silicon dioxide, amorphous
California Prop. 65	:	WARNING! This product contains a chemical known to the State of California to cause cancer. The listing of titanium dioxide is for "airborne, unbound particles of respirable size." The listing is not applicable to titanium dioxide when it remains bound within a product matrix.

Safety Data Sheet	
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Version 4.0	
Revision Date 01/20/2016	Ref. 15000002100
SECTION 16. OTHER INFOR	MATION
Restrictions for use	: These products may not be directly added to food or pharmaceuticals and are not recommended for use in medical devices or cosmetics.
	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.
Ti-Pure [™] and any associa For specific information or www.Chemours.com/Tita	ated logos are trademarks or copyrights of The Chemours Company TT, LLC. n composition and properties, see Ti-Pure [™] Titanium Dioxide Pigment literature. Please see nium_Technologies/en_US/ for the latest version of this MSDS.
Revision Date	: 01/20/2016
date of its publication. Th transportation, disposal a relates only to the specific other materials or in any p	in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the e information given is designed only as a guidance for safe handling, use, processing, storage, nd release and is not to be considered a warranty or quality specification. The information c material designated and may not be valid for such material used in combination with any process, unless specified in the text.
Significant change from p	previous version is denoted with a double bar.
	11 / 11