according to Regulation (EC) No. 1907/2006



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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

on use

Trade name	:	Ti-Pure™ Titanium Dioxide Pigment
SDS-Identcode	:	130000146692
REACH Registration Number	:	01-2119489379-17-0016
Substance name	:	Titanium dioxide
Index-No.	:	022-006-00-2
EC-No.	:	236-675-5
Other means of identification	:	R-960

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub- stance/Mixture	: Colouring agent, Pigment
Recommended restrictions	: For industrial use only.

1.3 Details of the supplier of the safety data sheet

Company	:	Chemours Netherlands B.V. Baanhoekweg 22 3313 LA Dordrecht Netherlands
Telephone	:	+31-(0)-78-630-1011
Telefax	:	+31-78-6163737
E-mail address of person responsible for the SDS	:	sds-support@chemours.com

1.4 Emergency telephone number

+(44)-870-8200418 (CHEMTREC - Recommended)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

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2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Dust contact with the eyes can lead to mechanical irritation.

Contact with dust can cause mechanical irritation or drying of the skin.

SECTION 3: Composition/information on ingredients

3.1 Substances

Substance name	:	Titanium dioxide
Index-No.	:	022-006-00-2
EC-No.	:	236-675-5

Components

Chemical name	CAS-No.	Concentration (% w/w)
	EC-No.	
Titanium dioxide	13463-67-7	>= 90 - <= 100
	236-675-5	

SECTION 4: First aid measures

4.1 Description of 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.
Protection of first-aiders	:	No special precautions are necessary for first aid responders.
If inhaled	:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact	:	Wash with water and soap. Get medical attention if symptoms occur.
In case of eye contact	:	If in eyes, rinse well with water. 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.



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4.2 Most i	mportant symptoms ar	nd e	ffects, both acute	and delayed
Symp	toms	:	irritant effects	
Risks		:	the skin.	can cause mechanical irritation or drying of
			Dust contact with	the eyes can lead to mechanical irritation.
4.3 Indica	tion of any immediate	mec	lical attention and	I special treatment needed
Treat	ment	:	Treat symptomati	cally and supportively.
SECTION	15: Firefighting meas	sur	es	
5.1 Exting	uishing media			
Suitat	ble extinguishing media	:	Not applicable Will not burn	
Unsui media	itable extinguishing a	:	Not applicable Will not burn	
5.2 Specia	al hazards arising from	the	substance or mix	xture
-	fic hazards during fire-			pustion products may be a hazard to health.
Hazaı ucts	rdous combustion prod-	:	No hazardous cor	nbustion products are known
5.3 Advice	e for firefighters			
Speci	-	:		ed breathing apparatus for firefighting if nec- onal protective equipment.
Speci ods	fic extinguishing meth-	:	cumstances and t Use water spray t	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
			so. Evacuate area.	-
SECTION	I 6: Accidental releas	se n	neasures	
	• •	tive	• •	emergency procedures
Perso	onal precautions	:		ing advice (see section 7) and personal pro- recommendations (see section 8).
6 2 Enviro	onmental precautions			
	onmental precautions	:	Avoid release to t	he environment.
	r		Prevent further lea	akage or spillage if safe to do so. se of contaminated wash water.

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		Local authoritie cannot be conta	s should be advised if significant spillages ained.
6.3 Metho	ods and material for o	containment and clea	ning up
Meth	ods for cleaning up	tainer for dispor Avoid dispersal with compresse Local or nationa posal of this ma employed in the mine which reg Sections 13 an	of dust in the air (i.e., clearing dust surfaces

6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures	:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation	:	Use only with adequate ventilation.
Advice on safe handling	:	Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure as- sessment Minimize dust generation and accumulation. Keep container closed when not in use. Take care to prevent spills, waste and minimize release to the environment.
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 contami- nated clothing before re-use.
7.2 Conditions for safe storage, i	ncl	uding any incompatibilities
Requirements for storage areas and containers	:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage	:	No special restrictions on storage with other products.
7.3 Specific end use(s)		
Specific use(s)	:	No data available

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40

8.2 Exposure controls

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

i ci sonai proteotive equipi	ion.	
Eye protection	:	Wear the following personal protective equipment: Safety goggles Equipment should conform to BS EN 166
Hand protection		
Material	:	Chemical-resistant gloves
Remarks	:	For prolonged or repeated contact use protective gloves. Wash hands before breaks and at the end of workday.
Skin and body protection	:	Skin should be washed after contact.
Respiratory protection	:	If adequate local exhaust ventilation is not available or expo- sure assessment demonstrates exposures outside the rec- ommended guidelines, use respiratory protection. Equipment should conform to BS EN 143
Filter type	:	Particulates type (P)

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	:	powder
Colour	:	white
Odour	:	odourless

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	Odour	Threshold	:	No data available	9
	pН		:	No data available	9
	Melting	point/freezing point	:	1,843 °C	
	Initial b range	oiling point and boiling	:	3,000 °C	
	Flash p	point	:	Not applicable	
	Evapor	ation rate	:	Not applicable	
	Flamm	ability (solid, gas)	:	Will not burn	
				Not expected to	form explosive dust-air mixtures.
		explosion limit / Upper bility limit	:	No data available	9
		explosion limit / Lower bility limit	:	No data available	9
	Vapour	pressure	:	Not applicable	
	Relativ	e vapour density	:	Not applicable	
	Relativ	e density	:	3.4 - 4.3	
	Solubili Wat	ity(ies) er solubility	:	insoluble	
	Partitio octanol	n coefficient: n- /water	:	No data available	9
	Auto-ig	nition temperature	:	No data available	9
	Decom	position temperature	:	The substance o	r mixture is not classified self-reactive.
	Viscosi Visc	ty cosity, kinematic	:	Not applicable	
	Explosi	ve properties	:	Not explosive	
	Oxidizi	ng properties	:	The substance o	r mixture is not classified as oxidizing.
9.2 0	Other ir	oformation			
	Particle	e size	:		X-ray Disc Centrifuge sed hydrodynamic diameter
	Particle	e Size Distribution	:		on on the particles percentage with aerody- ≤10 micron, see section 11.1 Information on

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			toxicological e	ffects – Carcinogenicity – Remarks.
SECTION	10: Stability and re	eactiv	vity	
10.1 Reac Not c	tivity lassified as a reactivity	hazaı	rd.	
	nical stability e under normal conditio	ons.		
10.3 Poss	ibility of hazardous re	eactio	ons	
Haza	rdous reactions	:	None known.	
10.4 Conc	litions to avoid			
Cond	itions to avoid	:	None known.	
	npatible materials			
Mater	rials to avoid	:	None.	
SECTION 11.1 Infor Inforr	Azardous decomposition A 11: Toxicological i mation on toxicologic nation on likely routes o	infor	mation ects Inhalation	
expos	sure		Skin contact Ingestion Eye contact	
	e toxicity			
	lassified based on avail	lable	information.	
11	ponents:			
UL I	ium dioxide: e oral toxicity	:	LD50 (Rat): > Method: OEC[5,000 mg/kg) Test Guideline 425
Acute	inhalation toxicity	:	LC50 (Rat): > Exposure time Test atmosphe Assessment: T tion toxicity	: 4 h
Acute	e dermal toxicity	:	Method: Exper	estimate (Rat): > 2,000 mg/kg t judgement 'he substance or mixture has no acute dermal

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II

Skin corrosion/irritation

Not classified based on available information.

Components:

Species Method Result	RabbitOECD Test Guideline 404No skin irritation
-----------------------------	---

Serious eye damage/eye irritation

Not classified based on available information.

Components:

Titanium dioxide:

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

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

Titanium dioxide:		
Test Type Exposure routes Species Method Result	:	Buehler Test Skin contact Guinea pig OECD Test Guideline 406 negative
Test Type Exposure routes Species Method Result		Local lymph node assay (LLNA) Skin contact Mouse OECD Test Guideline 429 negative
Exposure routes Species Result	:	Inhalation Mouse negative
Exposure routes Species Result	:	Inhalation Humans negative

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ersion 0	Revision Date: 15.07.2021	SDS Number: 5325721-00005	Date of last issue: 12.10.2020 Date of first issue: 22.11.2019
	a cell mutagenicity lassified based on availa	able information.	
<u>Com</u>	ponents:		
Titan	ium dioxide:		
Genotoxicity in vitro			erial reverse mutation assay (AMES) Test Guideline 471 e
			tro mammalian cell gene mutation test Test Guideline 476 e
			omosome aberration test in vitro Test Guideline 473 e
		Test Type: com Method: OPPTS Result: positive	
Geno	toxicity in vivo	Species: Rat Application Rou	vo mammalian alkaline comet assay te: intratracheal Test Guideline 489 e
		cytogenetic ass Species: Rat Application Rou	te: Ingestion Test Guideline 474
		cytogenetic test Species: Mouse Application Rou	te: Intraperitoneal injection Test Guideline 475
		Species: Mouse Application Rou	te: Intravenous injection Test Guideline 488
Germ sessn	cell mutagenicity- As- nent	: Weight of evide cell mutagen.	nce does not support classification as a germ

Carcinogenicity

Not classified based on available information.

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Prod	uct:		
Remarks		respectively 10 lung fibrosis wa croscopic lung the rats expose lung overloadir anisms. In further studie under particle of cies, the rat, ar pulmonary infla was also found rodent species In February 20 pertaining to G based upon ina evidence in exp titanium dioxide generation of tr animal species sufficient evide The conclusion 20000 TiO2 ind suggest a carc Mortality from of tory diseases, y dust. Based upon all conclude that t	06, IARC has re-evaluated Titanium dioxide as roup 2B: "possibly carcinogenic to humans", adequate evidence in humans and sufficient berimental animals for the carcinogenicity of a. IARC evaluation guidelines consider the umours, in 2 different studies within the same , to be adequate criteria for an assessment of nce. Is of several epidemiology studies on more than dustry workers in Europe and the USA did not inogenic effect of TiO2 dust on the human lung. other chronic diseases, including other respira- was also not associated with exposure to TiO2 available study results, Chemours scientists itanium dioxide will not cause lung cancer or tory diseases in humans at concentrations ex-
Rema	arks	REGULATION nized classifica carcinogen by To be classified 1% or more of Through a rigo available stand Measurement of drum method) complying to th 15051-2 consis contain < 1% of and therefore of respirable and	on Regulation (EU) 2020/217, amending (EC) No 1272/2008, introduces a new harmo- tion for certain forms of TiO ₂ as a category 2 inhalation which applies from 1 October 2021. d, the TiO ₂ must be in powder form and contain particles with aerodynamic diameter ≤ 10 µm. rous evaluation of available test methods and ards, EN 15051-2 (Workplace exposure – of the dustiness of bulk materials – rotating was identified as the best available method for re regulation. Data from the testing following EN stently shows that Ti-Pure [™] grades of TiO2 f particles with aerodynamic diameter ≤ 10 µm to not meet the criteria for classification. The thoracic dust content of Ti-Pure [™] grades fall in low dustiness categories by the EN 15051-2

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Com	oonents:		
Speci Applic	cation Route sure time	: Rat : inhalation (dus : 2 Years : negative	t/mist/fume)
	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	ence does not support classification as a car-
Not cl	oductive toxicity lassified based on availa ponents:	able information.	
LL.	ium dioxide: as on fertility	Species: Rat Application Ro	D Test Guideline 443
Effect ment	s on foetal develop-	Species: Rat Application Ro	D Test Guideline 414
Repro sessn	oductive toxicity - As- nent	: Weight of evid ductive toxicity	ence does not support classification for repro-
Not cl	- single exposure lassified based on availa conents:	able information.	
Titani	ium dioxide:		
	sure routes ssment		health effects observed in animals at concentra- ng/kg bw or less
Expos	sure routes	: Ingestion	
		11 / 1	7

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Asses	Assessment		: No significant health effects observed in animals at concentra- tions of 2000 mg/kg bw or less		
	Exposure routes Assessment		inhalation (dust/mist/fume) No significant health effects observed in animals at concentra- tions of 5.0 mg/l/4h or less		
STOT	- repeated exposure				
Not cl	assified based on avail	able	information.		
Comp	oonents:				
Titani	um dioxide:				
	sure routes sment	:	Ingestion No significant hea tions of 100 mg/k	Ith effects observed in animals at concentra- g bw or less.	
	sure routes ssment	:	inhalation (dust/m No significant hea tions of 0.2 mg/l/6	Ith effects observed in animals at concentra-	
	sure routes ssment	:	Ingestion No significant hea tions of 200 mg/k	Ith effects observed in animals at concentra- g bw or less.	
Repea	ated dose toxicity				
Comp	oonents:				
Titani	um dioxide:				
	EL L cation Route sure time od		Rat, male and fer 24,000 mg/kg > 24,000 mg/kg Ingestion 28 Days OECD Test Guide No significant adv		
	EL L cation Route sure time od		Rat, male and fer 0.01 mg/l 0.5 mg/l inhalation (dust/m 24 Months OECD Test Guide No significant adv	ist/fume)	
	EL L cation Route sure time od		Rat, male and fer 962 mg/kg > 962 mg/kg Ingestion 90 Days OECD Test Guide No significant adv		

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Aspiration toxicity

Not classified based on available information.

Components:

Titanium dioxide: No aspiration toxicity classification

Experience with human exposure

Product:	
Inhalation	Target Organs: Respiratory system Symptoms: respiratory tract irritation
Skin contact	Target Organs: Skin Symptoms: Contact with dust can cause mechanical irritation or drying of the skin.
Eye contact	Target Organs: Eyes Symptoms: Dust contact with the eyes can lead to mechanical irritation.

SECTION 12: Ecological information

12.1 Toxicity

	<u>Components:</u>	
I	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

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	Exposure time: 72 h Method: ISO 10253					
	dokirchneriella subcapitata (green algae)): > 100 e: 3 d D Test Guideline 201					
		Exposure time	NOEC (Skeletonema costatum (marine diatom)): 5,600 mg/l Exposure time: 3 d Method: ISO 10253			
12.2 Persi	stence and degradabi	lity				
No da	ta available					
12.3 Bioad	ccumulative potential					
Com	oonents:					
Titan	ium dioxide:					
Bioac	cumulation		orhynchus mykiss (rainbow trout) tion factor (BCF): 352			
12.4 Mobi No da	lity in soil Ita available					
12.5 Resu	Its of PBT and vPvB a	issessment				
Produ	uct:					
Asses	ssment	to be either pervisiter	: This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
12.6 Othe	r adverse effects					
Produ	uct:					
	crine disrupting poten-	ered to have REACH Artic	e/mixture does not contain components consid- endocrine disrupting properties according to le 57(f) or Commission Delegated regulation 00 or Commission Regulation (EU) 2018/605 at 5 or higher.			
SECTION	l 13: Disposal consi	derations				

13.1 Waste treatment methods

Product

: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

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C	ontaminated packaging	dling site for recyc	should be taken to an approved waste han- ling or disposal. becified: Dispose of as unused product.			
SECT	ION 14: Transport infor	mation				
14.2 U No 14.3 Tr	 14.1 UN number Not regulated as a dangerous good 14.2 UN proper shipping name Not regulated as a dangerous good 14.3 Transport hazard class(es) Not regulated as a dangerous good 					
	acking group ot regulated as a dangerous	good				
No 14.6 S	nvironmental hazards ot regulated as a dangerous pecial precautions for use ot applicable	-				
14.7 T	ransport in bulk according	•				
	emarks		product as supplied.			
SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mix- ture REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII)						

Concern for Authorisation (Article 59). REACH - List of substances subject to authorisation Not applicable : (Annex XIV) Regulation (EC) No 1005/2009 on substances that de-: Not applicable plete the ozone layer Regulation (EU) 2019/1021 on persistent organic pollu-: Not applicable tants (recast) Regulation (EC) No 649/2012 of the European Parlia-: Not applicable ment and the Council concerning the export and import of dangerous chemicals

REACH - Candidate List of Substances of Very High

: Not applicable



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Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. Not applicable

15.2 Chemical safety assessment

A Chemical Safety Assessment has been carried out for this substance.

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

Full text of other abbreviations

GB EH40	:	UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA	:	Long-term exposure limit (8-hour TWA reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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



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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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS -Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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/

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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