

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier	
Product Name	TiO ₂ Rutile Nanoparticles
Synonyms	Titania, Titanium(IV) oxide
Chemical Name	Titanium dioxide
Chemical Formula	TiO2
CAS No.	1317-80-2
EC No.	215-282-2
Index No.	022-006-00-2
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sub	stance or mixture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only

1.3 Details of the supplier of the safet	y data sheet
Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
	Windsor Street
	Sheffield
Postal code	S4 7WB, UK
Telephone:	+441142999180
E-mail	info@ossila.com
Office hours	08:00 - 17:00
1.4 Emergency telephone number	
Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)

Other Regions	Emergency Phone Number (CHEMTREC)
Europe, Middle East, Africa	+44 20 3885 0382
North America	+1 703 527 3887
Central America	+52 55 8526 4930
South America	+55 11 4349 1359
Asia, India, and Oceania	+65 3163 8374

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP) Not a hazardous substance or mixture.

Additional labelling

EUH212

Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

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.

2.4 Additional Information

Not applicable.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

No components need to be disclosed according to the applicable regulations. 3.2 Mixtures Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures	
General Advice	First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment)
	Show this safety data sheet to the doctor in attendance.
Inhalation	Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention if you feel unwell.
Skin Contact	Rinse skin with water. If skin irritation occurs, get medical advice/attention.
Eye Contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Ingestion	Rinse out mouth with water. Get medical advice/attention if you feel unwell.



4.2 Most important symptoms and e	
	Most important symptoms and effects, both acute and delayed, are included on labelling (Section 2.2) and in Section 11.
4.3 Indication of any immediate med	lical attention and special treatment needed
	Treat symptomatically.
SECTION 5: FIREFIGHTING MEASUR	ES
5.1 Extinguishing media	
Suitable Extinguishing media	As appropriate for surrounding fire.
Unsuitable extinguishing media	As appropriate for surrounding fire.
5.2 Special hazards arising from the	
	Titanium/titanium oxides
5.3 Advice for firefighters	
	Fire fighters should wear complete protective clothing including self-contained
	breathing apparatus.
SECTION 6: ACCIDENTAL RELEASE	MEASURES
6.1 Personal precautions, protective	e equipment and emergency procedures Follow safe handling advice and personal protective equipment recommendations
	(as per section 8). Provide adequate ventilation.
6.2 Environmental precautions	(as per section o). Provide adequate ventilation.
0.2 Environmental precautions	Avoid release to the environment.
6.3 Methods and material for contain	
	Sweep up spilled substance but avoid making dust. Use vacuum equipment for
	collecting spilt materials, where practicable. Dispose of contents in accordance with
	local, state or national legislation.
6.4 Reference to other sections	
	See Also Section 8, 13.
SECTION 7: HANDLING AND STORA	GE CONTRACTOR CONT
7.1 Precautions for safe handling	Association of the second s
Advice on safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-
	ventilated area. Wear protective clothing as per section 8.
Hygiene measures	Keep away from food and drink. Wash hands after handling, before breaks, and at
7.0. Conditions for onfo stanons incl	the end of workday.
7.2 Conditions for safe storage, incl	uding any incompatibilities
Storage temperature	Store in a well-ventilated place. Keep container tightly closed. Ambient.
Storage life	Stable under normal conditions.
Incompatible materials	None known.
7.3 Specific end use(s)	
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
SECTION 8: EXPOSURE CONTROLS	PERSONAL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits

UK – EH40 Workplace Exposure Limits (WEL).

		rioninplace Exp		/-		
Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr	LTEL (8 hr	STEL (ppm)	STEL (mg/m ³)	Note
		TWA ppm)	TWA mg/m ³)	u i)	,	
Titanium dioxide	1317-80-2		10 (inhalable			
			dust)			
			4 (respirable			
			dust)			

Region	Source
ELL	ELL Occupations

EU Occupational Exposure Limits United Kingdom UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018)

8.2.1. Appropriate engineering controls Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.

8.2.2. Personal protection equipment Eye Protection Hand protection

Body protection

Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU).

Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.

^{8.2} Exposure controls



Respiratory protection	Where risk assessment shows air-purifying respirators are appropriate use a full-
	face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a
	backup to engineering controls.
Thermal hazards	None known.
8.2.3. Environmental Exposure Controls	Avoid release to the environment.
SECTION 9: PHYSICAL AND CHEMICA	L PROPERTIES
9.1 Information on basic physical and	chamical properties
Physical State	Solid: Powder.
Colour	White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	1840 °C
Initial boiling point and boiling range	Not known.
Flammability	Not known.
Lower and upper explosion limit	Not known.
Flash Point	Not known.
Auto-ignition temperature (°C)	Not known.
Decomposition temperature (°C) pH	Not known. Not known.
Kinematic viscosity	Not known.
Solubility(ies)	Solubility (Water): Not known.
	Solubility (Other): Not known.
Partition coefficient: n-octanol/water (log	Not known.
value)	
Vapour pressure	Not known.
Density	Not known.
Relative density	Not known.
Relative vapour density	Not known.
Particle characteristics	Not known.
9.2 Other information	None.
SECTION 10: STABILITY AND REACTIV	ΛΙΤΥ
10.1 Reactivity	
10.2 Chemical Stability	None anticipated.
10.2 Chemical Stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reaction	
···· , ···· , ····· , ···· ··· ··· ···	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produ	
	In the event of fire: see Section 5.
SECTION 11: TOXICOLOGICAL INFORM	MATION
11.1 Information on toxicological effe	cts
Acute toxicity - Ingestion	No data available
Acute toxicity - Skin Contact	No data available
Acute toxicity - Inhalation	No data available
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available
Skin sensitization data Respiratory sensitization data	No data available No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Lactation	No data available
STOT - single exposure	No data available
STOT - repeated exposure	No data available
Aspiration hazard	No data available
44.0 Information on other honorde	
11.2 Information on other hazards 11.2.1 Endocrine disrupting properties	

11.2.2. Information on other hazards

None known. None known.



SECTION 12: ECOLOGICAL INFORMATION

SECTION 12: ECOLOGICAL INFORMAT	
12.1 Toxicity	
	No data availabla
Toxicity - Aquatic invertebrates	No data available
Toxicity - Fish	No data available
Toxicity - Algae	No data available
Toxicity - Sediment Compartment	No data available
Toxicity - Terrestrial Compartment	No data available
12.2 Persistence and Degradation	
	No data available
12.3 Bioaccumulative potential	
	No data available
12.4 Mobility in soil	
-	No data available
12.5 Results of PBT and vPvB assess	ment
	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 Endocrine disrupting properties	
12.0 Endocrine disrupting properties	Not known.
12.7 Other adverse effects	NUL KIIUWII.
12.7 Other adverse effects	Net her soor
	Not known.
	10110
SECTION 13: DISPOSAL CONSIDERAT	
13.1 Waste treatment methods	
15.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Recycle
	only completely emptied packaging. Normal disposal is via incineration operated by
	an accredited disposal contractor. Send to a licensed recycler, reclaimer or
	incinerator.
13.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.
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The following sections contain revisions or new statements:

LEGEND

Acronyms

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 CAS : Chemical Abstracts Service CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures DNEL : Derived No Effect Level EC : European Community EINECS : European Inventory of Existing Commercial Chemical Substances IATA : International Air Transport Association IBC : Intermediate Bulk Container ICAO : International Civil Aviation Organization IMDG : International Maritime Dangerous Goods LTEL : Long term exposure limit PBT : Persistent, Bioaccumulative and Toxic PNEC : Predicted No Effect Concentration REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals RID : Regulations concerning the International Carriage of Dangerous Goods by Rail STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative Information contained in this publication or as otherwise supplied to Users is believed

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