

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	MWCNT
Synonyms	Multi-wall carbon nanotubes, MWNT
Chemical Name	Multi-walled carbon nanotubes
Chemical Formula	С
CAS No.	308068-56-6
EC No.	Not available.
Index No.	Not available.
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 safety	
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)
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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 Regulation (EC) No. 1272/2008 (CLP)	mixture Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation
2.2 Label elements	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) MWCNT
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statement(s)	 P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor if you feel unwell. P337 + P313: If eye irritation persists: Get medical advice/attention.

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				
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
Multi-walled carbon nanotubes	308068-56-6	Not available.	>95%	Eye Irrit. 2 H319
Carbon Nanotubes (other)			<5%	STOT SE 3 H335
3.2 Mixtures				
Not applicable.				
SECTION 4: FIRST AID MEASU	RES			
4.1 Description of first aid mea	asures			
General Advice		ers should ensure the	v have taken ad	dequate steps to protect themselves
				ded personal protection equipment)
		s safety data sheet to		
Inhalation				table for breathing. Get medical
		ttention if you feel unv		3
Skin Contact				get medical advice/attention.
Eye Contact				es. Remove contact lenses, if present
		/ to do. Continue rinsi		· · · · · · · · · · · · · · · · · · ·
Ingestion			0	ice/attention if you feel unwell.
4.2 Most important symptoms				-
· · ·			l effects, both a	cute and delayed, are included on
	labelling	(Section 2.2) and in §	Section 11.	-
4.3 Indication of any immediat				
-		mptomatically.		
SECTION 5: FIREFIGHTING ME				
SECTION 5. FIREFIGHTING ME	AJUNEJ			
5.1 Extinguishing media				
Suitable Extinguishing media	As appro	priate for surrounding	g fire.	
Unsuitable extinguishing media	As appro	priate for surrounding	g fire.	
5.2 Special hazards arising fro	om the substance	or mixture	-	
	Carbon of			
5.3 Advice for firefighters				
			plete protective	clothing including self-contained
	breathing	g apparatus.		
SECTION 6: ACCIDENTAL REL	EASE MEASURE	S		
6.1 Personal precautions, prot				
				otective equipment recommendations
		ection 8). Provide ad	equate ventilation	on.
5.2 Environmental precautions			o. mt	
		lease to the environm	ent.	
6.3 Methods and material for o			and all so all the	
		· · · · · · · · ·		lust. Use vacuum equipment for
				Dispose of contents in accordance with
A Deference to athen and		te or national legislat	ion.	
6.4 Reference to other section		Section 9 12		
	See Also	Section 8, 13.		
SECTION 7: HANDLING AND S	TORAGE			
	ing			
7.1 Precautions for safe handl		alatian inserties	al anata structu	
Advice on safe handling				skin and eyes. Use only in a well-
		d area. Wear protecti		
Hygiene measures			ik. Wash hands	after handling, before breaks, and at
		of workday.		
7.2 Conditions for safe storage	e, including any i	ncompatibilities		
_		a well-ventilated place	e. Keep contain	er tightly closed.
Storage temperature	Ambient			
Storage life		nder normal condition	IS.	
ncompatible materials	None kn	own.		
7.3 Specific end use(s)				
	Apart fro	m the uses mentione	d 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).

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Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr	LTEL (8 hr	STEL (ppm)	STEL (mg/m³)	Note
		TWA ppm)	TWA mg/m³)	,		
Graphite						
inhalable dust	308068-56-6		10			
respirable	308068-56-6		4			

Region EU United Kingdom

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

8.2 Exposure controls

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	Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU).
Hand protection	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.
Body protection	Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
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 CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

5.1 Information on basic physical and	chemical properties
Physical State	Solid: Fibrous Powder.
Colour	Black.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	Not known.
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)	Not known.
pH	Not known.
Kinematic viscosity	Not known.
Solubility(ies)	Solubility (Water): Insoluble.
	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 REACTIVITY

10.1 Reactivity	
	None anticipated.
10.2 Chemical Stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	5
·	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.



10.6 Hazardous decomposition products

In the event of fire: see Section 5

SECTION 11: TOXICOLOGICAL INFORMATION			
11.1 Information on toxicological effects			
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	No data available.		
Respiratory sensitization data	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.		
11.2 Information on other hazards			
11.2.1 Endocrine disrupting properties			
	None known.		
11.2.2. Information on other hazards			

None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

12.1 Toxicity	
	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish	No data available.
Toxicity - Algae	No data available.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	
	Not known.
12.3 Bioaccumulative potential	
	Not known.
40.4 Mahilitu in sail	NOL KHOWH.
12.4 Mobility in soil	NetLease
	Not known.
12.5 Results of PBT and vPvB asses	
	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	5
	Not known.
12.7 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDER	TIONS
13.1 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.
SECTION 14: TRANSPORT INFORMA	TION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFORM	ATION
15.1 Safety, health and environment European Regulations - Authorisations Candidate List of Substances of Very High Concern for Authorisation	al regulations/legislation specific for the substance or mixture s and/or Restrictions On Use Not listed
REACH: ANNEX XIV list of substances	Not listed

High Concern for Authorisation REACH: ANNEX XIV list of substances Not listed subject to authorisation



REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Community Rolling Action Plan (CoRAP)	Not listed
Regulation (EC) N° 850/2004 of the	Not listed
European Parliament and of the Council	
on persistent organic pollutants	
Regulation (EC) N° 1005/2009 on	Not listed
substances that deplete the ozone layer	
Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Council	
concerning the export and import of	
hazardous chemicals	
National regulations	
Other	Not known.
15.2 Chemical Safety Assessment	
	A REACH chemical safety assessment has not been carried out.

SECTION 16: OTHER INFORMATION

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 : Internediate 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
Disclaimers	vPvB : very Persistent and very Bioaccumulative Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Ossila Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Ossila Limited accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.