

## 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	Short Single-Walled Carbon Nanotubes (sSWCNTs)
Synonyms	Single-Walled Carbon Nanotubes, Single-Wall Carbon Nanotube, Carbon Nanotube, SWNT, CNT
Chemical Name	Single-Walled Carbon Nanotubes
Chemical Formula	CxHy
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	ostance 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 data sheet

Other Decienc	Emergeney Dhene Number (CHEMTREC)
Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)
1.4 Emergency telephone number	
Office hours	08:00 - 17:00
E-mail	info@ossila.com
Telephone:	+441142999180
Postal code	S4 7WB, UK
	Sheffield
	Windsor Street
Address of Supplier	Solpro Business Park
Company Identification	Ossila Limited

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	According to Degulation (EC) No. 1272/2008 (CLD)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Short Single-Walled Carbon Nanotubes (sSWCNTs)
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		— — — — — — — — — — — — — — — — — — —		h
	CAS No.	EC No.	%W/W	Hazard Statement(s)
Single-Walled Carbon Nanotubes	308068-56-6	Not available.	<= 100	Eye Irrit. 2 H319 STOT SE 3 H335
				5101 32 311333
3.2 Mixtures				
Not applicable.				
SECTION 4: FIRST AID MEASUR	RES			
4.1 Description of first aid measured				
General Advice				equate steps to protect themselves ed personal protection equipment)
		is safety data sheet to		
Inhalation	Remove	person to fresh air ar	nd keep comforta	able for breathing. Get medical
Skin Contact		ttention if you feel unv		get medical advice/attention.
Eye Contact				es. Remove contact lenses, if present
_, c contact	and easy	/ to do. Continue rinsi	ng.	•
Ingestion	Rinse ou	it mouth with water.		ce/attention if you feel unwell.
4.2 Most important symptoms a			leffecte bethe	
		Sortant symptoms and (Section 2.2) and in S		cute and delayed, are included on
4.3 Indication of any immediate				
-		mptomatically.		
SECTION 5: FIREFIGHTING ME	ASURES			
5.1 Extinguishing media				
Suitable Extinguishing media		priate for surrounding		
Unsuitable extinguishing media		priate for surrounding	g fire.	
5.2 Special hazards arising from	n the substance Carbon (			
5.3 Advice for firefighters	Guibon			
5			plete protective	clothing including self-contained
	breathin	g apparatus.		
SECTION 6: ACCIDENTAL RELE	ASE MEASURE	S		
6.1 Personal precautions, prote	ctive equipment	and emergency pro	ocedures	
				tective equipment recommendations
		ection 8). Provide ad		
6.2 Environmental precautions	ماندى	loopo to the opviron-	ont	
6.3 Methods and material for co		lease to the environm	ent.	
			avoid making du	ust. Use vacuum equipment for
	collectin	g spilt materials, wher	e practicable. D	ispose of contents in accordance with
		te or national legislat	ion.	
6.4 Reference to other sections		Section 8, 13.		
SECTION 7: HANDLING AND ST				
7.1 Precautions for safe handlin		polotion incretion	d contact with a	kin and aven the antwin a well
Advice on safe handling	AVOIO INI ventilete	nalation, ingestion, an d area. Wear protectiv	u contact with s	kin and eyes. Use only in a well- er section 8
Hygiene measures		•	• ·	after handling, before breaks, and at
		of workday.		
7.2 Conditions for safe storage	, including any i	ncompatibilities		
_	Store in	a well-ventilated place	e. Keep containe	er tightly closed.
Storage temperature	Ambient Stable u		c	
Storage life Incompatible materials	None kn	nder normal condition	5.	
7.3 Specific end use(s)				
	Apart fro	m the uses montione	d in coction 1.2	no other specific uses are stipulated
	Apartino			no other specific uses are supulated



# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters

8.1.1 Occupational Exposure Limits	No Occupational Exposure Limit assigned.
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

Physical State	Solid: Fibres.
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): Not known.
	Solubility (Other): Not known.
Partition coefficient: n-octanol/water (log value)	Not known.
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 reaction		
	Not known.	
10.4 Conditions to avoid		
	Not known.	
10.5 Incompatible materials		
	Not known.	
10.6 Hazardous decomposition proc		
	In the event of fire: see Section 5	
SECTION 11: TOXICOLOGICAL INFORMATION		

## 11.1 Information on toxicological effects

No data available.
No data available.
No data available.
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 Lactation	No data available. 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	Negelineur
11.2.2. Information on other hazards	None known.
	None known.
SECTION 12: ECOLOGICAL INFORMA	TION
12.1 Toxicity	
	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish Toxicity - Algae	No data available. No data available.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	
40.0 Disconstructive notantial	Not known.
12.3 Bioaccumulative potential	Not known.
12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB assess	
	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	
	Not known.
12.7 Other adverse effects	Not known.
SECTION 13: DISPOSAL CONSIDERAT	TIONS
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 Regulation (EU) N° 649/2012 of the
 Not listed

 European Parliament and of the Council
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# 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 : 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
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