

## 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	(-COOH) Functionalized Graphitized Multi Walled Carbon Nanotubes		
Synonyms	Carboxylic acid-functionalized graphitized multi-walled carbon nanotubes, G-MWCNT-COOH		
Chemical Name	Graphitized multi-walled carbon nanotubes – carboxylic acid functionalized		
Chemical Formula	C		
CAS No.	N/A		
EC No.	Not available.		
Index No.	Not available.		
REACH Registration No.	Not applicable.		
1.2 Relevant identified uses of the substance or mixture and uses advised against			
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only		
4.2. Details of the summing of the set	, data alkant		

#### 1.3 Details of the supplier of the safety 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)

Emergency Phone Number (CHEMTREC)
+44 20 3885 0382
+1 703 527 3887
+52 55 8526 4930
+55 11 4349 1359
+65 3163 8374

## **SECTION 2: HAZARDS IDENTIFICATION**

2.1 Classification of the substance or mixture Regulation (EC) No. 1272/2008 (CLP) Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation		
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)	
Product Name	(-COOH) Functionalized Graphitized Multi Walled Carbon Nanotubes	
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

SECTION 3: COMPOSITION/INF		INGREDIENTS		
3.1 Substances	1			
Hazardous ingredient(s) Graphitized multi-walled carbon nanotubes – carboxylic acid functionalized	CAS No. N/A	EC No. Not available.	%W/W <= 100	Hazard Statement(s) Eye Irrit. 2 H319 STOT SE 3 H335
3.2 Mixtures Not applicable.				
SECTION 4: FIRST AID MEASU	RES			
4.1 Description of first aid mea General Advice	First ai from e	xposure (see Section 8	for recommend	lequate steps to protect themselves ed personal protection equipment)
Inhalation	Remov	his safety data sheet to be person to fresh air ar attention if you feel un	nd keep comfort	able for breathing. Get medical
Skin Contact Eye Contact Ingestion <b>4.2 Most important symptoms</b>	Rinse Rinse and ea Rinse	skin with water. If skin i cautiously with water fo sy to do. Continue rinsi out mouth with water. G	rritation occurs, r several minute ing.	get medical advice/attention. es. Remove contact lenses, if present ce/attention if you feel unwell.
	Most ir labellir	nportant symptoms and ig (Section 2.2) and in S	Section 11.	cute and delayed, are included on
4.3 Indication of any immediate		symptomatically.	nent needed	
SECTION 5: FIREFIGHTING ME	ASURES			
5.1 Extinguishing media Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising fro	As app m the substand			
5.3 Advice for firefighters	Fire fig	n oxides hters should wear com ing apparatus.	plete protective	clothing including self-contained
SECTION 6: ACCIDENTAL REL	EASE MEASUR	ES		
6.1 Personal precautions, prote	Follow	nt and emergency pro safe handling advice a section 8). Provide ad	nd personal pro	tective equipment recommendations
6.2 Environmental precautions		,		ווע.
6.3 Methods and material for c	ontainment and Sweep collect	up spilled substance -	avoid making d e practicable. D	ust. Use vacuum equipment for ispose of contents in accordance with
6.4 Reference to other sections	S	so Section 8, 13.		
SECTION 7: HANDLING AND S		, , , , , , , , , , , , , , , , ,		
7.1 Precautions for safe handli Advice on safe handling	Avoid i	nhalation, ingestion, ar ted area. Wear protecti		kin and eyes. Use only in a well- er section 8.
Hygiene measures	Keep a	•	• •	after handling, before breaks, and at
7.2 Conditions for safe storage	, including any		e. Keep contain	er tightly closed.
Storage temperature Storage life Incompatible materials	Ambie	nt. under normal conditior	·	
7.3 Specific end use(s)	Apart f	rom 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	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

9.1 Information on basic physical and	chemical properties
Physical State	Solid: 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.
рН	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 rea	actions
	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

No data available.
No data available.
No data available.
No data available.



Serious eye damage/irritation	No data available.
Senous eye damage/initiation 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 STOT - single exposure	No data available. 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	Negelineum
11.2.2. Information on other hazards	None known.
	None known.
SECTION 12: ECOLOGICAL INFORMAT	ION
12.1 Toxicity	
-	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish	No data available.
Toxicity - Algae	No data available. Not classified.
Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	Not classified.
	Not known.
12.3 Bioaccumulative potential	
12.4 Mahiliky in anil	Not known.
12.4 Mobility in soil	Not known.
12.5 Results of PBT and vPvB assessr	
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	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative
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12.6 Endocrine disrupting properties	Notkoowo
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Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals National regulations	Not listed
Other 15.2 Chemical Safety Assessment	Not known.
13.2 Chemical Salety 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 : 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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