

# SAFETY DATA SHEET

## 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-COOH (Diameter: 40 nm, length: 10-20 µm)
Synonyms	Carboxylic acid-functionalised multi-walled carbon nanotubes, MWNT-COOH
Chemical Name	Multi-walled carbon nanotubes – carboxylic acid functionalised
Chemical Formula	C (-COOH)
CAS No.	N/A
EC No.	Not available.
Index No.	006-104-00-2
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	
1.3 Details of the supplier of the safety	y data sheet
<b>1.3 Details of the supplier of the safet</b> Company Identification	<b>y data sheet</b> Ossila Limited
Company Identification	Ossila Limited
Company Identification	Ossila Limited Solpro Business Park
Company Identification	Ossila Limited Solpro Business Park Windsor Street
Company Identification Address of Supplier	Ossila Limited Solpro Business Park Windsor Street Sheffield
Company Identification Address of Supplier Postal code	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK
Company Identification Address of Supplier Postal code Telephone:	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180
Company Identification Address of Supplier Postal code Telephone: E-mail	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com
Company Identification Address of Supplier Postal code Telephone: E-mail Office hours	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com

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)	<b>mixture</b> Carc. 1B: May cause cancer STOT RE 1: Causes damage to organs through prolonged or repeated exposure
2.2 Label elements	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) MWCNT-COOH (Diameter: 40 nm, length: 10-20 μm)
Hazard Pictogram(s)	GHS08
Signal Word(s)	Danger
Hazard Statement(s)	H350i: May cause cancer H372: Causes damage to organs through prolonged or repeated exposure
Precautionary Statement(s)	P260: Do not breathe dust/fume. P318: if exposed or concerned, get medical advice. P319: Get medical help if you feel unwell.

#### 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 CAS No. Hazardous ingredient(s) EC No. %W/W Hazard Statement(s) Multi-walled carbon nanotubes N/A Not available. ≤ 100 Carc. 1B H350i STOT RE 1 H372 (lung, inhalation) carboxylic acid functionalised Index number: 006-104-00-2 3.2 Mixtures Not applicable. **SECTION 4: FIRST AID MEASURES** 4.1 Description of first aid measures First aiders should ensure they have taken adequate steps to protect themselves General Advice 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 effects, both acute and delayed 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 medical attention and special treatment needed Treat symptomatically. **SECTION 5: FIREFIGHTING MEASURES** 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 substance or mixture Carbon 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 equipment and emergency procedures Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation. 6.2 Environmental precautions Avoid release to the environment. 6.3 Methods and material for containment and cleaning up Sweep up spilled substance - 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 STORAGE** 7.1 Precautions for safe handling Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-Advice on safe handling ventilated area. Wear protective clothing as per section 8. Keep away from food and drink. Wash hands after handling, before breaks, and at Hygiene measures the end of workday. 7.2 Conditions for safe storage, including any incompatibilities Store in a well-ventilated place. Keep container tightly closed. Storage temperature Ambient Storage life Stable under normal conditions. Incompatible materials None known.

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

7.3 Specific end use(s)



# 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

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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.
рН	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.

0.1 Reactivity		
	None anticipated.	
0.2 Chemical Stability		
-	Stable under recommended storage conditions.	
0.3 Possibility of hazardous rea	actions	
	Not known.	
0.4 Conditions to avoid		
	Not known.	
0.5 Incompatible materials		
	Not known.	
0.6 Hazardous decomposition	products	
	In the event of fire: see Section 5	

# 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 Reproductive toxicity	No data available. No data available.
Lactation	No data available.
STOT - single exposure	No data available.
STOT - repeated exposure	No data available.
Aspiration hazard	No data available.
<b>11.2 Information on other hazards</b> 11.2.1 Endocrine disrupting properties	
	None known.
11.2.2. Information on other hazards	
	None known.
SECTION 12: ECOLOGICAL INFORMA	TION
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.
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.
<ul><li>12.6 Endocrine disrupting properties</li><li>12.7 Other adverse effects</li></ul>	Not known.
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 Regulation (EU) N° 649/2012 of the
 Not listed

 European Parliament and of the Council
 Second Seco

## 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 vPvB : very Persistent and very Bioaccumulative
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