

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	Graphene water dispersion
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 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

The product does not need to be labelled in accordance with EC directives or respective national laws.

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

This product is a mixture.

3.2 Mixtures Ingredient(s) CAS No. EC No. %W/W Hazard Statement(s) Graphene 1034343-98-0 1

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 effe	ects, 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 medic	al attention and special treatment needed
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Treat symptomatically.

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 Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). 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. Hygiene measures Keep away from food and drink. Wash hands after handling, before breaks, and at 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. 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 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). Handle with gloves. Gloves must be inspected prior to use and proper glove removal Hand protection 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 Body protection dangerous substances, and to the specific work-place. Respiratory protection No personal respiratory protection is necessary under normal circumstances.

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

9.1 Information on basic physical an	d chemical properties
Physical State	Liquid.
Colour	Black.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	0°C
Initial boiling point and boiling range	100 °C
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	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 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 effect	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	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 Toxicity - Aquatic invertebrates No data available Toxicity - Fish Toxicity - Algae No data available 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 assessment 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 CONSIDERATI	ONS
13.1 Waste treatment methods	
13.2 Additional Information	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.
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORMATION	N
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFORMAT	TON
European Regulations - Authorisations a Candidate List of Substances of Very High Concern for Authorisation REACH: ANNEX XIV list of substances subject to authorisation REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Community Rolling Action Plan (CoRAP)	Not listed Not listed Not listed
Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the European Parliament and of the Council	Not listed Not listed
concerning the export and import of hazardous chemicals National regulations Other 15.2 Chemical Safety Assessment	Not known. 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
	STEL : Short term exposure limit STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative
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