

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

	Boron Nitride (BN) Nanopowder White graphene, Hexagonal BN, h-BN Hexagonal boron nitride BN 10043-11-5 233-136-6 Not available. Not applicable. Stance or mixture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals, Research and development use <i>only</i>

1.3 Details of the supplier of the safety Company Identification Address of Supplier	y data sheet Ossila Limited Solpro Business Park Windsor Street Sheffield
Postal code	S4 7WB, UK
Telephone:	+441142999180
E-mail	info@ossila.com
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1.4 Emergency telephone number	
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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 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

No components need to be disclosed according to the applicable regulations. 3.2 Mixtures

Not applicable.

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
1 91	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

Treat symptomatically.



SECTION 5: FIREFIGHTING MEASURES	5
 5.1 Extinguishing media Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from the suitable 	As appropriate for surrounding fire. As appropriate for surrounding fire. ubstance or mixture
5.3 Advice for firefighters	Borane, boron oxides Nitrogen oxides (NOx) Fire fighters should wear complete protective clothing including self-contained
SECTION 6: ACCIDENTAL RELEASE MI	breathing apparatus.
6.1 Personal precautions, protective e	quipment and emergency procedures Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.
6.2 Environmental precautions	Association to the second second
6.3 Methods and material for containm	Avoid release to the environment. nent and cleaning up Sweep up spilled substance but 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 Advice on safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-
Hygiene measures	ventilated area. Wear protective clothing as per section 8. Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.
7.2 Conditions for safe storage, includ	ling any incompatibilities Store in a well-ventilated place. Keep container tightly closed.
Storage temperature	Ambient.
Storage life	Stable under normal conditions.
Incompatible materials 7.3 Specific end use(s)	None known.
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
SECTION 8: EXPOSURE CONTROLS/PI	ERSONAL PROTECTION
8.1 Control parameters	
8.1.1 Occupational Exposure Limits	
8.2 Exposuro controlo	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
Body protection	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 dangerous substances, and to the specific work-place.
Respiratory protection	No personal respiratory protection is necessary under normal circumstances.
Thermal hazards 8.2.3. Environmental Exposure Controls	None known. Avoid release to the environment.
SECTION & PHYSICAL AND CHEMICAL	DRODEDTIES

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and	d chemical properties
Physical State	Solid: Powder.
Colour	White/Off-White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	2973 °C
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) pH Kinematic viscosity Solubility(ies)	Not known. Not known. Not known. 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 reactions	S
10.4 Conditions to avoid	Not known.
	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

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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 Toxicity - Fish Toxicity - Algae Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment 12.2 Persistence and Degradation	No data available No data available No data available No data available No data available
12.3 Bioaccumulative potential	No data available
	No data available
12.4 Mobility in soil	
	No data available
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.

	ONS
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 INFORMATION	N
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFORMAT	TION
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) Regulation (EC) N° 850/2004 of the European Parliament and of the Council	Not listed Not listed Not listed Not listed
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 concerning the export and import of hazardous chemicals National regulations Other	Not listed Not known.
15.2 Chemical Safety Assessment	

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



Disclaimers

vPvB : very Persistent and very Bioaccumulative

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