

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 Synonyms Chemical Name Chemical Formula CAS No. EC No. Index No.	4CzTPN - 2,3,5,6-tetrakis(carbazol-9-yl)-1,4-dicyanobenzene C56H32N6 1416881-53-2 Not available. Not available.
REACH Registration No.	Not applicable. Destance 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	y 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 o Regulation (EC) No. 1272/2008 (CLP)	r mixture Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation
2.2 Label elements	According to Degulation (EC) No. 1979/2009 (CLD)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 4CzTPN
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statement(s)	 P302 + P352: IF ON SKIN: Wash with plenty of water. 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

Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
2,3,5,6-tetrakis(carbazol-9-yl)-	LAS NO. 1416881-53-2	Not available.	%vv/vv <= 100	Skin Irrit. 2 H315
	1410001-03-2	not available.	<= 100	
1,4-dicyanobenzene				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	isures			
General Advice	First aide	ers should ensure the	/ have taken ad	equate steps to protect themselves
	from exp	osure (see Section 8	for recommende	ed personal protection equipment)
	Show this	s safety data sheet to	the doctor in at	tendance.
Inhalation				able for breathing. Get medical
		tention if you feel unv		
Skin Contact				get medical advice/attention.
Eye Contact				s. Remove contact lenses, if present
Lye contact		to do. Continue rinsi		
Ingestion				ce/attention if you feel unwell.
4.2 Most important symptoms				
+.2 wost important symptoms			offocto both ac	sute and delayed, are included on
		(Section 2.2) and in S		ute and delayed, are included on
1.2 Indication of any immediate				
4.3 Indication of any immediate			ient needed	
	i reat syr	nptomatically.		
SECTION 5: FIREFIGHTING ME	ASURES			
5.1 Extinguishing media				
Suitable Extinguishing media	As appro	priate for surrounding	fire	
Unsuitable extinguishing media		priate for surrounding		
5.2 Special hazards arising from			1110.	
	Carbon c			
		oxides (NOx)		
5.3 Advice for firefighters	Nilloyen			
5.5 Advice for menginers	Eiro fight	ore chould woor com	loto protoctivo (clothing including self-contained
		apparatus.		clothing including sen-contained
	breathing	j apparatus.		
SECTION 6: ACCIDENTAL REL	EASE MEASURE	S		
6.1 Personal precautions, prote				
				ective equipment recommendations
	Follow sa		nd personal prot	
6.1 Personal precautions, prote	Follow sa (as per s	afe handling advice a	nd personal prot	
6.1 Personal precautions, prote	Follow sa (as per s	afe handling advice an ection 8). Provide ade	nd personal prot equate ventilatio	
6.1 Personal precautions, prote	Follow sa (as per s Avoid rel	afe handling advice an ection 8). Provide ade ease to the environm	nd personal prot equate ventilatio	
6.1 Personal precautions, prote	Follow sa (as per s Avoid rel ontainment and c	afe handling advice an ection 8). Provide add ease to the environm cleaning up	nd personal prot equate ventilatio ent.	n.
5.1 Personal precautions, prote	Follow sa (as per s Avoid rel ontainment and c Sweep u	afe handling advice an ection 8). Provide add ease to the environm cleaning up p spilled substance -	nd personal prot equate ventilatio ent. avoid making du	n. ust. Use vacuum equipment for
6.1 Personal precautions, prote	Follow sa (as per s Avoid rel ontainment and c Sweep u collecting	afe handling advice an ection 8). Provide add ease to the environm cleaning up p spilled substance - g spillt materials, wher	nd personal prot equate ventilatio ent. avoid making du e practicable. Di	n. ust. Use vacuum equipment for
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6.1 Personal precautions, prote6.2 Environmental precautions6.3 Methods and material for ca	Follow sa (as per s Avoid rel ontainment and c Sweep u collecting local, sta	afe handling advice an ection 8). Provide add ease to the environm cleaning up p spilled substance - g spillt materials, wher	nd personal prot equate ventilatio ent. avoid making du e practicable. Di	n.
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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.
0.0.0 Demonstration eminment	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	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

9.1 Information on basic physical and	chemical properties
Physical State	Solid: Powder/Crystals.
Colour	Orange.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	> 360 °C (lit.)
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.

SECTION 10: STABILITY AND REACTIVITY	
10.1 Reactivity	
-	None anticipated.
10.2 Chemical Stability	
-	Stable under recommended storage conditions.
10.3 Possibility of hazardous re	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

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.
	No data available.
STOT - single exposure STOT - repeated exposure	No data available. No data available.
Aspiration hazard	No data available.
11.2 Information on other hazards	no data avaliable.
11.2.1 Endocrine disrupting properties	
· · · · · · · · · · · · · · · · · · ·	None known.
11.2.2. Information on other hazards	
	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.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	
	Not known.
12.3 Bioaccumulative potential	NetLease
12.4 Mobility in soil	Not known.
12.4 Mobility III Soli	Not known.
12.5 Results of PBT and vPvB assessr	
	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	
	Net lue evue
	Not known.
SECTION 13: DISPOSAL CONSIDERAT	
SECTION 13: DISPOSAL CONSIDERAT	IONS
	IONS Dispose of contents in accordance with local, state or national legislation. Recycle
	IONS Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Normal disposal is via incineration operated by
	IONS Dispose of contents in accordance with local, state or national legislation. Recycle
	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
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
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13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT 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. ON
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13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT INFORMATION IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMATION 15.1 Safety, health and environmental European Regulations - Authorisations a Candidate List of Substances of Very High Concern for Authorisation REACH: ANNEX XIV list of substances	IONS 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. ON Not classified as hazardous for transport. TION regulations/legislation specific for the substance or mixture nd/or Restrictions On Use
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13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT INFORMATION IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMATION 15.1 Safety, health and environmental 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	IONS 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. ON Not classified as hazardous for transport. TION regulations/legislation specific for the substance or mixture nd/or Restrictions On Use Not listed
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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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