

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	4CzPN-Ph
Synonyms	4CzPNPh, 3,4,5,6-tetrakis(3,6-diphenyl-9H-carbazol-9-yl)phthalonitrile
Chemical Name	3,4,5,6-tetrakis(3,6-diphenylcarbazol-9-yl)- 1,2-dicyanobenzene
Chemical Formula	C104H64N6
CAS No.	1469707-47-8
EC No.	Not available.
Index No.	Not available.
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

+441142999180

info@ossila.com

08:00 - 17:00

Telephone: E-mail Office hours 1.4 Emergency telephone number Emergency Phone

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	

+44 (0) 20 3885 0382 (CHEMTREC)

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 (F.C.) No. 1072/2008 (CLD)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 4CzPN-Ph
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

			0/ \\/\\	Llozard Statemart(a)
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
3,4,5,6-tetrakis(3,6-	1469707-47-8	Not available.	<= 100	Skin Irrit. 2 H315
diphenylcarbazol-9-yl)- 1,2-				Eye Irrit. 2 H319
dicyanobenzene				STOT SE 3 H335
3.2 Mixtures				
Not applicable.				
SECTION 4: FIRST AID MEAS	URES			
4.1 Description of first aid me	02611706			
General Advice		ors should ensure the	v have taken ad	equate steps to protect themselves
				ed personal protection equipment)
		s safety data sheet to		
Inholation				
Inhalation				able for breathing. Get medical
Olvin Contract		tention if you feel un		
Skin Contact				get medical advice/attention.
Eye Contact				s. Remove contact lenses, if present
		to do. Continue rinsi		
ngestion			et medical advid	ce/attention if you feel unwell.
4.2 Most important symptom				
				ute and delayed, are included on
		(Section 2.2) and in S		
4.3 Indication of any immedia			nent needed	
	Treat syr	nptomatically.		
SECTION 5: FIREFIGHTING M				
SECTION 3. FIREFIGHTING M	IEAJUREJ			
5.1 Extinguishing media				
Suitable Extinguishing media	As appro	priate for surrounding	ı fire.	
Unsuitable extinguishing media		priate for surrounding		
5.2 Special hazards arising fr			,	
	Carbon c			
		oxides (NOx)		
5.3 Advice for firefighters	Milogen			
5.5 Advice for menginers	Fire fight	ers should wear com	olete protective (clothing including self-contained
	i ne nyin			clothing including sen-contained
	breathing	annaratue		
	breathing	apparatus.		
SECTION 6: ACCIDENTAL RE				
	LEASE MEASURE	S	cedures	
	LEASE MEASURES	S and emergency pro		ective equipment recommendations
	ELEASE MEASURE Ditective equipment Follow sa	S and emergency pro afe handling advice a	nd personal prot	ective equipment recommendations
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5.1 Personal precautions, pro 5.2 Environmental precaution 5.3 Methods and material for	ELEASE MEASURES Detective equipment Follow sa (as per s Avoid rel containment and c Sweep u collecting local, sta ns	and emergency pro afe handling advice a ection 8). Provide ad- ease to the environm leaning up p spilled substance - g spilt materials, wher	nd personal prot equate ventilatio ent. avoid making du e practicable. Di	n. ust. Use vacuum equipment for
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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.
	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

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	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.

10.1 Reactivity		
2	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		
	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	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 11.2 Information on other hazards	No data available.
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	
The faile of Annual the factor of the sector	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish	No data available.
Toxicity - Algae	No data available.
Toxicity - Sediment Compartment	Not classified. Not classified.
Toxicity - Terrestrial Compartment 12.2 Persistence and Degradation	Not classified.
12.2 Tersistence and Degradation	Not known.
12.3 Bioaccumulative potential	
P	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
12.6 Endooring discupting properties	(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 CONSIDERAT	
SECTION 13. DISPOSAL CONSIDERAT	
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
	only completely emptied backading. Normal disposal is via incineration operated by
	an accredited disposal contractor. Send to a licensed recycler, reclaimer or
12.2. Additional Information	
13.2 Additional Information	an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator.
13.2 Additional Information	an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Disposal should be in accordance with local, state or national legislation.
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SECTION 14: TRANSPORT INFORMATI	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.
SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA	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
SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA 15.1 Safety, health and environmental	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
SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA 15.1 Safety, health and environmental European Regulations - Authorisations a	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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SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA 15.1 Safety, health and environmental European Regulations - Authorisations a Candidate List of Substances of Very High Concern for Authorisation	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
SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA 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	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
SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA 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	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 Not listed
SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA 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 manufacture, placing on the market and	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 Not listed
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SECTION 14: TRANSPORT INFORMATI IATA/IMO/RID/ADR SECTION 15: REGULATORY INFORMA 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 manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	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 Not listed 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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