

## 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	BCzTPA
Synonyms	4,4'-[3,3'-bi-9H-carbazole]-9,9'-diylbis[N,N-diphenyl-benzenamine]
Chemical Name	4,4'-(9H,9'H-3,3'-Bicarbazole-9,9'-diyl)bis(N,N-diphenylaniline)
Chemical Formula	C60H42N4
CAS No.	1032174-52-9
EC No.	Not available.
Index No.	Not available.
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 safet	y 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

<b>mixture</b> Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation
According to Regulation (EC) No. 1272/2008 (CLP) BCzTPA
GHS07
Warning
H315: Causes skin irritation H319: Causes serious eye irritation
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. 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

3.1 Substances				
1		FON	0/14/04/	
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
4,4'-(9H,9'H-3,3'-Bicarbazole-	1032174-52-9	Not available.	<= 100	Skin Irrit. 2 H315
9,9'-diyl)bis(N,N-diphenylaniline)				Eye Irrit. 2 H319
3.2 Mixtures				
Not applicable.				
SECTION 4: FIRST AID MEASUR	RES			
4.1 Description of first aid meas	SURAS			
General Advice		ers should ensure the	y have taken ad	equate steps to protect themselves
				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		to do. Continue rinsi		s. Remove contact lenses, if present
Ingestion				ce/attention if you feel unwell.
4.2 Most important symptoms a				
			effects, both ac	ute and delayed, are included on
		(Section 2.2) and in S		, ,
4.3 Indication of any immediate	e medical attentio	n and special treatr		
-	Treat syn	nptomatically.		
SECTION 5: FIREFIGHTING ME	ASURES			
5.1 Extinguishing media				
Suitable Extinguishing media		priate for surrounding		
Unsuitable extinguishing media		priate for surrounding	g fire.	
5.2 Special hazards arising from	Carbon o			
		oxides (NOx)		
5.3 Advice for firefighters	Nillogen			
	Fire fight	ers should wear com	olete protective	clothing including self-contained
		apparatus.	•	5 5
	-			
SECTION 6: ACCIDENTAL RELE	ASE WEASURE	3		
6.1 Personal precautions, prote				
6.1 Personal precautions, prote	Follow sa	afe handling advice a	nd personal prot	ective equipment recommendations
	Follow sa (as per se		nd personal prot	
	Follow sa (as per so	afe handling advice a ection 8). Provide ad	nd personal prot equate ventilatio	
<ul> <li>6.1 Personal precautions, prote</li> <li>6.2 Environmental precautions</li> <li>6.3 Methods and material for co</li> </ul>	Follow sa (as per se Avoid rele	afe handling advice a ection 8). Provide ad ease to the environm	nd personal prot equate ventilatio	
6.2 Environmental precautions	Follow sa (as per so Avoid rele ontainment and c	afe handling advice a ection 8). Provide adv ease to the environm <b>leaning up</b>	nd personal prot equate ventilatio ent.	n.
6.2 Environmental precautions	Follow sa (as per so Avoid rele ontainment and c Sweep u	afe handling advice a ection 8). Provide add ease to the environm <b>leaning up</b> p spilled substance -	nd personal prof equate ventilatio ent. avoid making du	n. ust. Use vacuum equipment for
6.2 Environmental precautions	Follow sa (as per so Avoid rele ontainment and c Sweep up collecting	afe handling advice a ection 8). Provide add ease to the environm <b>leaning up</b> p spilled substance -	nd personal prof equate ventilatio ent. avoid making du e practicable. D	n.
6.2 Environmental precautions 6.3 Methods and material for co	Follow sa (as per su Avoid relu- ontainment and c Sweep up collecting local, sta	afe handling advice a ection 8). Provide add ease to the environm deaning up p spilled substance - g spillt materials, wher te or national legislat	nd personal prof equate ventilatio ent. avoid making du e practicable. D	n. ust. Use vacuum equipment for
6.2 Environmental precautions 6.3 Methods and material for co	Follow sa (as per su Avoid relu- ontainment and c Sweep up collecting local, sta	afe handling advice a ection 8). Provide add ease to the environm <b>Jeaning up</b> p spilled substance - g spillt materials, wher	nd personal prof equate ventilatio ent. avoid making du e practicable. D	n. ust. Use vacuum equipment for
<ul><li>6.2 Environmental precautions</li><li>6.3 Methods and material for co</li><li>6.4 Reference to other sections</li></ul>	Follow sa (as per so Avoid rele ontainment and c Sweep u collecting local, sta See Also	afe handling advice a ection 8). Provide add ease to the environm deaning up p spilled substance - g spillt materials, wher te or national legislat	nd personal prof equate ventilatio ent. avoid making du e practicable. D	n. ust. Use vacuum equipment for
<ul> <li>6.2 Environmental precautions</li> <li>6.3 Methods and material for co</li> <li>6.4 Reference to other sections</li> <li>SECTION 7: HANDLING AND ST</li> </ul>	Follow sa (as per so Avoid rele ontainment and c Sweep u collecting local, sta See Also	afe handling advice a ection 8). Provide add ease to the environm deaning up p spilled substance - g spillt materials, wher te or national legislat	nd personal prof equate ventilatio ent. avoid making du e practicable. D	n. ust. Use vacuum equipment for
<ul> <li>6.2 Environmental precautions</li> <li>6.3 Methods and material for co</li> <li>6.4 Reference to other sections</li> <li>SECTION 7: HANDLING AND ST</li> <li>7.1 Precautions for safe handling</li> </ul>	Follow sa (as per so Avoid rele- ontainment and c Sweep u collecting local, sta See Also FORAGE	afe handling advice a ection 8). Provide add ease to the environm <b>leaning up</b> p spilled substance - g spilt materials, wher te or national legislat Section 8, 13.	nd personal prot equate ventilatio ent. avoid making du e practicable. D on.	n. ust. Use vacuum equipment for ispose of contents in accordance with
	Follow sa (as per so Avoid rele- ontainment and c Sweep up collecting local, sta See Also TORAGE ng Avoid inh	afe handling advice a ection 8). Provide add ease to the environm <b>leaning up</b> p spilled substance - g spilt materials, wher te or national legislat Section 8, 13.	nd personal prof equate ventilatio ent. avoid making du e practicable. D on. d contact with s	n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well-
<ul> <li>6.2 Environmental precautions</li> <li>6.3 Methods and material for co</li> <li>6.4 Reference to other sections</li> <li>SECTION 7: HANDLING AND ST</li> <li>7.1 Precautions for safe handling</li> <li>Advice on safe handling</li> </ul>	Follow sa (as per so Avoid reli- ontainment and c Sweep u collecting local, sta See Also FORAGE ng Avoid inh ventilated	afe handling advice a ection 8). Provide adv ease to the environm <b>leaning up</b> p spilled substance - g spilt materials, wher te or national legislat Section 8, 13.	nd personal prot equate ventilation ent. avoid making du e practicable. D on. d contact with s ve clothing as pe	n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8.
<ul> <li>6.2 Environmental precautions</li> <li>6.3 Methods and material for co</li> <li>6.4 Reference to other sections</li> <li>SECTION 7: HANDLING AND ST</li> <li>7.1 Precautions for safe handling</li> <li>Advice on safe handling</li> </ul>	Follow sa (as per se Avoid rele ontainment and c Sweep u collecting local, sta See Also FORAGE ng Avoid inh ventilated Keep awa	afe handling advice a ection 8). Provide adv lease to the environm leaning up p spilled substance - g spilt materials, where te or national legislat Section 8, 13.	nd personal prot equate ventilation ent. avoid making du e practicable. D on. d contact with s ve clothing as pe	n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well-
<ul> <li>6.2 Environmental precautions</li> <li>6.3 Methods and material for co</li> <li>6.4 Reference to other sections</li> <li>SECTION 7: HANDLING AND ST</li> <li>7.1 Precautions for safe handling</li> <li>Advice on safe handling</li> <li>Hygiene measures</li> </ul>	Follow sa (as per se Avoid rele ontainment and c Sweep u collecting local, sta See Also FORAGE ng Avoid inh ventilated Keep awa the end c	afe handling advice a ection 8). Provide adv lease to the environm leaning up p spilled substance - g spilt materials, wher te or national legislat Section 8, 13.	nd personal prot equate ventilation ent. avoid making du e practicable. D on. d contact with s ve clothing as pe	n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8.
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<ul> <li>6.2 Environmental precautions</li> <li>6.3 Methods and material for co</li> <li>6.4 Reference to other sections</li> <li>SECTION 7: HANDLING AND ST</li> <li>7.1 Precautions for safe handling</li> </ul>	Follow sa (as per se Avoid rele ontainment and c Sweep u collecting local, sta See Also FORAGE ng Avoid inh ventilated Keep awa the end c , including any in	afe handling advice a ection 8). Provide advice ease to the environm deaning up p spilled substance - g spilt materials, wher te or national legislat Section 8, 13. Section 8, 13.	nd personal prot equate ventilation ent. avoid making du e practicable. D on. d contact with s ve clothing as per k. Wash hands	n. ust. Use vacuum equipment for ispose of contents in accordance with kin and eyes. Use only in a well- er section 8. after handling, before breaks, and at
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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.
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	White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	Tg = 157 °C, Tm = 239 °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)	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.

	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 reaction	ons
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition proc	
	In the event of fire: see Section 5
SECTION 11: TOXICOLOGICAL INFO	DRMATION

## 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 Carcinogenicity	No data available. No data available.
Reproductive toxicity	No data available.
Lactation	No data available.
STOT - single exposure	No data available.
STOT - repeated exposure Aspiration hazard	No data available. No data available.
11.2 Information on other hazards	
11.2.1 Endocrine disrupting properties	
11.2.2. Information on other hazards	None known.
	None known.
SECTION 12: ECOLOGICAL INFORMA	FION
SECTION 12. ECOLOGICAL INFORMA	
12.1 Toxicity	
Toxicity - Aquatic invertebrates	No data available. 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	
12.4 Mobility in soil	Not known.
	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	
12.7 Other adverse effects	Not known.
	Not known.
SECTION 13: DISPOSAL CONSIDERAT	IONS
13.1 Waste treatment methods	Dispose of contents in accordance with local, state or national legislation. Recycle
13.2 Additional Information	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 INFORMAT	ION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFORMA	TION
15.1 Safety, health and environmental	regulations/legislation specific for the substance or mixture
European Regulations - Authorisations a Candidate List of Substances of Very	
High Concern for Authorisation REACH: ANNEX XIV list of substances subject to authorisation	Not listed
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	Not listed
Community Rolling Action Plan (CoRAP) Regulation (EC) N° 850/2004 of the European Parliament and of the Council	Not listed Not listed
on persistent organic pollutants	



 Regulation (EU) N° 649/2012 of the
 Not listed

 European Parliament and of the Council
 Second Parliament and of the Council

 concerning the export and import of
 Hater and the Council

 hazardous chemicals
 Not known.

 Note
 Not known.

 15.2 Chemical Safety Assessment
 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 UN : United Nations vPvB : very Persistent and very Bioaccumulative
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