

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	4PADCB		
Synonyms	CbzNaph		
Chemical Name	(4-(7H-Dibenzo[c,g]carbazol-7-yl)butyl)phosphonic acid		
Chemical Formula	C24H22NO3P		
CAS No.	2882156-63-8		
EC No.	Not available.		
Index No.	Not available.		
REACH Registration No.	Not applicable.		
1.2 Relevant identified uses of the substance 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		

08:00 - 17:00

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 or Regulation (EC) No. 1272/2008 (CLP)	Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation		
2.2 Label elements			
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 4PADCB		
Hazard Pictogram(s)	GHS07		
Signal Word(s)	Warning		
Hazard Statement(s)	H315: Causes skin irritation H319: Causes serious eye 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. 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

SECTION 3: COMPOSITION/IN				
3.1 Substances Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
(4-(7H-Dibenzo[c,g]carbazol-7- yl)butyl)phosphonic acid		Not available.	≤ 100	Skin Irrit. 2 H315 Eye Irrit. 2 H319
3.2 Mixtures Not applicable.				
SECTION 4: FIRST AID MEAS	URES			
4.1 Description of first aid me General Advice	First from Show	exposure (see See / this safety data s	ction 8 for recomm heet to the doctor	en adequate steps to protect themselves nended personal protection equipment) in attendance. mfortable for breathing. Get medical
	advic	e/attention if you f	eel unwell.	°,
Skin Contact Eye Contact	Rinse and e	e cautiously with w easy to do. Continu	ater for several m ue rinsing.	curs, get medical advice/attention. inutes. Remove contact lenses, if present
Ingestion 4.2 Most important symptoms				advice/attention if you feel unwell.
	Most	important sympton	ms and effects, bo	oth acute and delayed, are included on
4.3 Indication of any immedia	te medical atte	ing (Section 2.2) a ntion and special symptomatically.	Ind in Section 11. I treatment neede	ed
SECTION 5: FIREFIGHTING M	EASURES			
 5.1 Extinguishing media Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising fr 5.3 Advice for firefighters 	As ap om the substar Carbo Oxide	opropriate for surro opropriate for surro nce or mixture on oxides es of phosphorus gen oxides		
5.5 Advice for menginers		ighters should wea hing apparatus.	ar complete protec	ctive clothing including self-contained
SECTION 6: ACCIDENTAL RE	LEASE MEASU	RES		
6.1 Personal precautions, pro	Follow	w safe handling ac	lvice and persona	l protective equipment recommendations
6.2 Environmental precaution		er section 8). Prov	ide adequate ven	แลนงท.
6.3 Methods and material for	containment an Swee	ep up spilled subst	ance - avoid maki	ng dust. Use vacuum equipment for le. Dispose of contents in accordance with
6.4 Reference to other section		state or national I	egislation.	
V.T REFERENCE TO UTIER SECTIO		Also Section 8, 13	i.	
SECTION 7: HANDLING AND	STORAGE			
7.1 Precautions for safe hand				
Advice on safe handling	Avoic ventil	ated area. Wear p	rotective clothing	
Hygiene measures		away from food a and of workday.	nd drink. Wash ha	ands after handling, before breaks, and at
7.2 Conditions for safe storag	ge, including an Store	y incompatibilities in a well-ventilate	es d place. Keep cor	ntainer tightly closed.
Storage temperature Storage life Incompatible materials			sensitive. Handle	and store under inert gas. Store in dark.
7.3 Specific end use(s)	Apart	from the uses me	ntioned in section	1.2 no other specific uses are stipulated



SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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	

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

chemical properties
Solid: Powder.
White.
Not known.
Not known.
378 °C (decomposition)
Not known.
Solubility (Water): Not known.
Solubility (Other): Not known.
Not known.
Not known.
None.

10.1 Reactivity		
-	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	products	
	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 STOT - repeated exposure	No data available. 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 INFORMAT	TION
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	Net luceum
12.3 Bioaccumulative potential	Not known.
12.5 Divaccumulative potential	Not known.
12.4 Mobility in soil	
•	Not known.
12.5 Results of PBT and vPvB assess	nent
	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	
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 Regulation (EU) N° 649/2012 of the
 Not listed

 European Parliament and of the Council
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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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