

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. REACH Registration No. 1.2 Relevant identified uses of the sull Identified Use(s) 	Ph-4PACz - (4-(3,6-Diphenyl-9H-carbazol-9-yl)butyl)phosphonic acid C28H26NO3P 2814500-04-2 Not available. Not available. Not applicable. bstance or mixture and uses advised against PC21 Laboratory chemicals, Research and development use <i>only</i>		
1.3 Details of the supplier of the safety data sheet			
	•		
Company Identification	Ossila Limited		
Company Identification Address of Supplier	Solpro Business Park		
	Solpro Business Park Windsor Street		
	Solpro Business Park		
Address of Supplier	Solpro Business Park Windsor Street Sheffield		
Address of Supplier Postal code Telephone: E-mail	Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com		
Address of Supplier Postal code Telephone: E-mail Office hours	Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180		
Address of Supplier Postal code Telephone: E-mail	Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com		

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 Regulation (EC) No. 1272/2008 (CLP)	mixture Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation
2.2 Label elements	According to Desculption (EC) No. 1272/2009 (CLD)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Ph-4PACz
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/II				
3.1 Substances			L	
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
(4-(3,6-Diphenyl-9H-carbazol-	2814500-04-2	Not available.	≤ 100	Skin Irrit. 2 H315
9-yl)butyl)phosphonic acid				Eye Irrit. 2 H319
3.2 Mixtures				
Not applicable.				
SECTION 4: FIRST AID MEAS	URES			
4.1 Description of first aid m	02511705			
General Advice		aiders should ensi	ire they have take	en adequate steps to protect themselves
				nended personal protection equipment)
		this safety data s		
Inhalation				mfortable for breathing. Get medical
		e/attention if you for		
Skin Contact				curs, get medical advice/attention.
Eye Contact				inutes. Remove contact lenses, if present
Indection		asy to do. Continu		advice/attention if you feel upwell
Ingestion 4.2 Most important symptom				advice/attention if you feel unwell.
				oth acute and delayed, are included on
	labell	ing (Section 2.2) a	ind in Section 11.	
4.3 Indication of any immedia				ed
2		symptomatically.		
SECTION 5: FIREFIGHTING M	IEASURES			
5.1 Extinguishing media				
Suitable Extinguishing media	As ar	propriate for surro	unding fire	
Unsuitable extinguishing media		propriate for surro		
5.2 Special hazards arising f			anang mo.	
5		on oxides		
	Nitrog	gen oxides (NOx)		
		s of phosphorus		
5.3 Advice for firefighters				
			ar complete protec	ctive clothing including self-contained
	breat	hing apparatus.		
SECTION 6: ACCIDENTAL RE	ELEASE MEASU	RES		
6.1 Personal precautions, pr	otective equipm	ent and emergen	cy procedures	
o. r r craonar precautiona, pr				I protective equipment recommendations
		er section 8). Prov		
6.2 Environmental precaution	· · ·			
•	Avoid	l release to the env	vironment.	
6.3 Methods and material for				
				ing dust. Use vacuum equipment for
				ble. Dispose of contents in accordance with
		state or national le	egislation.	
6.4 Reference to other section				
	See A	Also Section 8, 13		
SECTION 7: HANDLING AND	STORAGE			
7.1 Proceptions for cofe her				
7.1 Precautions for safe hand Advice on safe handling	•	inhalation indext	ion and contact w	vith skin and eyes. Use only in a well-
Advice on sale handling		ated area. Wear p		
Hydiene measures			-	ands after handling, before breaks, and at
Hygiene measures		away from food a nd of workday.	na unnk. Wash ha	anus alter hanulling, beiore breaks, and at
7.2 Conditions for acts stars				
7.2 Conditions for safe stora				ntainer tightly closed.
Storage temperature	3-5 °(a place. Neep COI	namer ugnuy closed.
Storage life			sensitive Handle	and store under inert gas. Store in dark.
Incompatible materials		known.		and store under mort gas. Glore 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	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.
Colour	White to Off-White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	364 °C (decomposition)
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 1	Reactivity	
	licuotivity	None anticipated.
10.2	Chemical Stability	
-	· · · · · · · · · · · · · · · · · · ·	Stable under recommended storage conditions.
10.3	Possibility of hazardous react	ions
	-	Not known.
10.4	Conditions to avoid	
		Not known.
10.5 I	Incompatible materials	
		Not known.
10.6	Hazardous decomposition pro	
		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.
5	



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 Lactation	No data available. 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.
	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 Toxicity - Sediment Compartment	No data available. Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	
	Not known.
12.3 Bioaccumulative potential	Notknown
12.4 Mobility in soil	Not known.
·_··	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
12.6 Endocrine disrupting properties	(vPvB) at levels of 0.1% or higher.
	Not known.
12.7 Other adverse effects	Not known.
	Not known. Not known.
	Not known.
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Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals National regulations	Not listed
Other 15.2 Chemical Safety Assessment	Not known.
13.2 Chemical Salety 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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