

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

	Tetrakis(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)methane		
Product Name Synonyms	4,4,5,5-tetramethyl-2-(4-{tris[4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-		
Chemical Name	yl)phenyl]methyl}phenyl)-1,3,2-dioxaborolane 2,2',2",2"-(Methanetetrayltetra-4,1-phenylene)tetrakis(4,4,5,5-tetramethyl-1,3,2-		
	dioxaborolane)		
Chemical Formula	C49H64B4O8		
CAS No.	875772-13-7		
EC No.	Not available.		
Index No.	Not available.		
REACH Registration No.	Not applicable.		
 Relevant identified uses of the selection of	ubstance or mixture and uses advised against PC21 Laboratory chemicals, Research and development use only		
1.3 Details of the supplier of the safe	ety 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		
הסום, ווועום, מווע סטפמווום	F100 0010 0014		
SECTION 2: HAZARDS IDENTIFICAT			
Regulation (EC) No. 1272/2008 (CLP)	Acute Tox. 4: Harmful if swallowed Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation		
2.2 Label elements			
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) Tetrakis(4-(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)phenyl)methane		
Hazard Pictogram(s)	GHS07		
Signal Word(s)	Warning		
Hazard Statement(s)	H302: Harmful if swallowed H315: Causes skin irritation		
	H319: Causes serious eye irritation H335: May cause respiratory irritation		



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

.1 Substances		FON	0/14/04/	
lazardous ingredient(s) ,2',2",2'''-(Methanetetrayltetra-	CAS No.	EC No. Not available.	%W/W ≤ 100	Hazard Statement(s) Acute Tox. 4 H302
,2',2",2"'-(Methanetetrayitetra- ,1-phenylene)tetrakis(4,4,5,5-	013112-13-1	not available.	≈ 100	Skin Irrit. 2 H315
tramethyl-1,3,2-				Eye Irrit. 2 H319
oxaborolane)				STOT SE 3 H335
,				
2 Mixtures ot applicable.				
ECTION 4: FIRST AID MEAS	URES			
.1 Description of first aid me				
Seneral Advice		aiders should ensu	ire they have taker	n adequate steps to protect themselves
	from		ction 8 for recomme	ended personal protection equipment)
nhalation	Rem	ove person to fresh	n air and keep com	fortable for breathing. Get medical
		ce/attention if you fe		
Skin Contact				urs, get medical advice/attention.
ye Contact				nutes. Remove contact lenses, if present
ngestion		easy to do. Continu		advice/attention if you feel unwell.
.2 Most important symptom				aviocratterition il you leel uliwell.
				h acute and delayed, are included on
	label	lling (Section 2.2) a	nd in Section 11.	
.3 Indication of any immedia	ate medical atte	ention and special		d
	Trea	t symptomatically.		
ECTION 5: FIREFIGHTING M	EASURES			
Suitable Extinguishing media		ppropriate for surro		
Suitable Extinguishing media Insuitable extinguishing media	As a	ppropriate for surro		
Suitable Extinguishing media Insuitable extinguishing media	As a com the substa	ppropriate for surro nce or mixture		
Suitable Extinguishing media Insuitable extinguishing media	As a om the substa Carb	ppropriate for surro nce or mixture oon oxides		
Suitable Extinguishing media Jnsuitable extinguishing media .2 Special hazards arising fi	As a om the substa Carb	ppropriate for surro nce or mixture		
Suitable Extinguishing media Insuitable extinguishing media .2 Special hazards arising fi	As a rom the substa Carb Bora	ppropriate for surro nce or mixture oon oxides ane/boron oxides	bunding fire.	ive clothing including self-contained
Suitable Extinguishing media Insuitable extinguishing media .2 Special hazards arising fi	As a rom the substa Carb Bora Fire	ppropriate for surro nce or mixture oon oxides ane/boron oxides	bunding fire.	ive clothing including self-contained
5.1 Extinguishing media Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising for 5.3 Advice for firefighters SECTION 6: ACCIDENTAL RE	As a rom the substa Carb Bora Fire brea	ppropriate for surro nce or mixture oon oxides nne/boron oxides fighters should wea thing apparatus.	bunding fire.	ive clothing including self-contained
Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising fi 5.3 Advice for firefighters SECTION 6: ACCIDENTAL RE	As a com the substa Carb Bora Fire brea	ppropriate for surro nce or mixture oon oxides une/boron oxides fighters should wea thing apparatus. JRES	ar complete protect	ive clothing including self-contained
Suitable Extinguishing media Jnsuitable extinguishing media 5.2 Special hazards arising fi 5.3 Advice for firefighters	As a com the substa Carb Bora Fire brea LEASE MEASU	ppropriate for surro nce or mixture oon oxides une/boron oxides fighters should wea thing apparatus. JRES nent and emergen	ar complete protect	
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 Buitable Extinguishing media Insuitable extinguishing media 2 Special hazards arising fuestion 3 Advice for firefighters ECTION 6: ACCIDENTAL RE 1 Personal precautions, presentation 	As a com the substa Carb Bora Fire brea LEASE MEASU Detective equipn Follo (as p	ppropriate for surro nce or mixture oon oxides ine/boron oxides fighters should wea thing apparatus. JRES nent and emergen ow safe handling ad per section 8). Prov	ar complete protect cy procedures lvice and personal ide adequate venti	protective equipment recommendations
Suitable Extinguishing media Jnsuitable extinguishing media .2 Special hazards arising fi .3 Advice for firefighters ECTION 6: ACCIDENTAL RE .1 Personal precautions, pro .2 Environmental precaution	As a com the substa Carb Bora Fire brea LEASE MEASU Detective equipn Follo (as p as Avoi	ppropriate for surro nce or mixture oon oxides ine/boron oxides fighters should weathing apparatus. JRES nent and emergen ow safe handling ad per section 8). Provi d release to the env	ar complete protect cy procedures lvice and personal ide adequate venti	protective equipment recommendations
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Suitable Extinguishing media Jnsuitable extinguishing media .2 Special hazards arising fi .3 Advice for firefighters ECTION 6: ACCIDENTAL RE .1 Personal precautions, pro .2 Environmental precaution .3 Methods and material for .4 Reference to other section ECTION 7: HANDLING AND .1 Precautions for safe hand Advice on safe handling	As a com the substa Carb Bora Fire brea CLEASE MEASU Cotective equipn Follo (as p Follo (as p Avoi containment a Swe colle local ns See STORAGE Iling Avoi venti	ppropriate for surro nce or mixture bon oxides ine/boron oxides fighters should weat thing apparatus. JRES nent and emergen by safe handling ad ber section 8). Provi d release to the envi nd cleaning up ep up spilled substa- citing spilt materials I, state or national le Also Section 8, 13 d inhalation, ingesti- ilated area. Wear p	ar complete protect cy procedures lvice and personal ide adequate venti vironment. ance - avoid makin s, where practicable egislation. ion, and contact wi rotective clothing a	protective equipment recommendations lation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well-
 Buitable Extinguishing media Insuitable extinguishing media 2 Special hazards arising fi 3 Advice for firefighters ECTION 6: ACCIDENTAL RE 1 Personal precautions, pro 2 Environmental precaution 3 Methods and material for 4 Reference to other section ECTION 7: HANDLING AND 1 Precautions for safe hand dvice on safe handling 	As a com the substa Carb Bora Fire brea CLEASE MEASU Otective equipn Follo (as p Follo (as p Source Stortainment a Swe colle local ns See STORAGE	ppropriate for surro nce or mixture bon oxides ine/boron oxides fighters should weat thing apparatus. JRES nent and emergen by safe handling ad ber section 8). Provi d release to the envi nd cleaning up ep up spilled substa- citing spilt materials I, state or national le Also Section 8, 13 d inhalation, ingesti ilated area. Wear p p away from food al	ar complete protect cy procedures lvice and personal ide adequate venti vironment. ance - avoid makin s, where practicable egislation. ion, and contact wi rotective clothing a	protective equipment recommendations lation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well- is per section 8.
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Auitable Extinguishing media Insuitable extinguishing media 2 Special hazards arising fi 3 Advice for firefighters ECTION 6: ACCIDENTAL RE 1 Personal precautions, pro 2 Environmental precaution 3 Methods and material for 4 Reference to other section ECTION 7: HANDLING AND 1 Precautions for safe hand advice on safe handling Hygiene measures	As a com the substa Carb Bora Fire brea CLEASE MEASU Detective equipm Folic (as p Source and the substal Containment a Swe colle local ns See STORAGE STORAGE Storage Storag	ppropriate for surro nce or mixture bon oxides ine/boron oxides fighters should weat thing apparatus. JRES nent and emergen bw safe handling ad ber section 8). Provident d release to the em- ind cleaning up ep up spilled substa- citing spilt materials l, state or national left Also Section 8, 13 d inhalation, ingesti- ilated area. Wear pro- to away from food ar- end of workday. ny incompatibilitie	ar complete protect cy procedures lvice and personal ide adequate venti vironment. ance - avoid makin s, where practicable egislation. ion, and contact wi rotective clothing a nd drink. Wash har	protective equipment recommendations lation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well- is per section 8. nds after handling, before breaks, and at
Suitable Extinguishing media Jnsuitable extinguishing media .2 Special hazards arising fi .3 Advice for firefighters ECTION 6: ACCIDENTAL RE .1 Personal precautions, pro .2 Environmental precaution .3 Methods and material for .4 Reference to other section ECTION 7: HANDLING AND .1 Precautions for safe hand	As a com the substa Carb Bora Fire brea CLEASE MEASU Detective equipm Folic (as p Source and the substal Containment a Swe colle local ns See STORAGE STORAGE Storage Storag	ppropriate for surro nce or mixture bon oxides ine/boron oxides fighters should weat thing apparatus. JRES nent and emergen bw safe handling ad ber section 8). Provide d release to the em- ind cleaning up ep up spilled substa- citing spilt materials l, state or national left Also Section 8, 13 d inhalation, ingesti- ilated area. Wear pro- to away from food ar- end of workday. ny incompatibilitie e in a well-ventilate-	ar complete protect cy procedures lvice and personal ide adequate venti vironment. ance - avoid makin s, where practicable egislation. ion, and contact wi rotective clothing a nd drink. Wash har	protective equipment recommendations lation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well- is per section 8.



SAFETY DATA SHEET

Incompatible materials	None known.	
7.3 Specific end use(s)	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated	
SECTION 8: EXPOSURE CONTROLS/P	ERSONAL 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
Physical State	Solid: Powder.
Colour	Off-White to Beige.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	N/A
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.
pH	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
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10.1 Reactivity

None anticipated.

10.2 Chemical Stability	None anticipated.
	Stable under recommended storage conditions.
10.3 Possibility of hazardous reaction	
-	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produce	cts
	In the event of fire: see Section 5



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effect	ts
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	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 INFORMATION

12.1 Toxicity	
	No data available.
Toxicity - Aquatic invertebrates	No data available.
Toxicity - Fish	No data available. No data available.
Toxicity - Algae Toxicity - Sediment Compartment	No data available. Not classified.
Toxicity - Terrestrial Compartment	Not classified.
12.2 Persistence and Degradation	NUT Classifica.
	Not known.
12.3 Bioaccumulative potential	
•	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 Endocrine disrupting properties	(vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties	Not known.
12.7 Other adverse effects	Not Known.
	Not known.
SECTION 13: DISPOSAL CONSIDERA	TIONS
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
	incinerator.
13.2 Additional Information	Discussed all and the first standard and with the set of state and at the state for a
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORMA	ΓΙΟΝ
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
	· · · · · · · · · · · · · · · · · · ·
SECTION 15: REGULATORY INFORM	ATION
15.1 Safety, health and environmenta European Regulations - Authorisations Candidate List of Substances of Very High Concern for Authorisation	I regulations/legislation specific for the substance or mixture and/or Restrictions On Use Not listed

 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

 European Regulations - Authorisations and/or Restrictions On Use

 Candidate List of Substances of Very
 Not listed

 High Concern for Authorisation
 Not listed

 REACH: ANNEX XIV list of substances
 Not listed

 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 on persistent organic pollutants	Not listed Not listed
Regulation (EC) N° 1005/2009 on	Not listed
substances that deplete the ozone layer	
Regulation (EU) N° 649/2012 of the	Not listed
European Parliament and of the Council	
concerning the export and import of	
hazardous chemicals	
National regulations	
Other	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 : Internediate 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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