

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	1,3,6,8-Tetrakis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)pyrene
Synonyms	TPPY, 1,3,6,8-Tetra(pinacolboryl)pyrene
Chemical Name	1,3,6,8-Tetrakis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)pyrene
Chemical Formula	C40H54B4O8
CAS No.	1398053-00-3
EC No.	Not available.
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the su	bstance 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
1.3 Details of the supplier of the safet Company Identification	y data sheet Ossila Limited
	•
Company Identification	Ossila Limited
Company Identification	Ossila Limited Solpro Business Park
Company Identification	Ossila Limited Solpro Business Park Windsor Street
Company Identification Address of Supplier Postal code Telephone:	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180
Company Identification Address of Supplier Postal code Telephone: E-mail	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com
Company Identification Address of Supplier Postal code Telephone: E-mail Office hours	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180
Company Identification Address of Supplier Postal code Telephone: E-mail	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com
Company Identification Address of Supplier Postal code Telephone: E-mail Office hours	Ossila Limited 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 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	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	1,3,6,8-Tetrakis(4,4,5,5-tetramethyl-1,3,2-dioxaborolan-2-yl)pyrene
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
Precautionary Statement(s)	 P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. 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

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1,3,6,8-Tetrakis(4,4,5,5- 13 tetramethyl-1,3,2-dioxaborolan- 13 2-yl)pyrene 13 3.2 Mixtures Not applicable. SECTION 4: FIRST AID MEASUR 4.1 Description of first aid meas General Advice Inhalation Skin Contact Eye Contact Ingestion 4.2 Most important symptoms and 4.3 Indication of any immediate SECTION 5: FIREFIGHTING MEA 5.1 Extinguishing media Suitable Extinguishing media	98053-00-3 First a from 6 Show Remo advic Rinse and e Rinse and e Rinse Rinse and e Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Ri Rinse Rinse Rinse Rinse Rinse Rinse Rinse Rinse Ri	Not available. aiders should ensue exposure (see Second this safety data so ve person to fression e/attention if you for e skin with water. I e cautiously with water. I e cautiously with water. I e cautiously with water. I e cautiously with water. I e oth acute and de important sympton ing (Section 2.2) a ntion and specia	ure they have taken ction 8 for recomme sheet to the doctor ir h air and keep comf feel unwell. If skin irritation occur vater for several min ue rinsing. vater. Get medical ac vater. Get medical ac shayed ms and effects, both and in Section 11.	Acute Tox. 4 H302 Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335 adequate steps to protect themselves ended personal protection equipment) in attendance. Fortable for breathing. Get medical rs, get medical advice/attention. Jutes. Remove contact lenses, if present dvice/attention if you feel unwell. in acute and delayed, are included on
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.1 Extinguishing media Suitable Extinguishing media	SURES			
Suitable Extinguishing media				
Suitable Extinguishing media				
Insuitable extinguishing media	As ap	propriate for surro	ounding fire.	
moultable extinguishing mould	As ap	propriate for surro	ounding fire.	
.2 Special hazards arising from	n the substan	nce or mixture		
	Carbo	on oxides		
	Borar	ne/boron oxides		
5.3 Advice for firefighters				
			ar complete protectiv	ve clothing including self-contained
	breat	hing apparatus.		
ECTION 6: ACCIDENTAL RELE	ASE MEASU	RES		
6.1 Personal precautions, protect	ctive equipm	ent and emergen	ncy procedures	
	Follov	w safe handling ad	dvice and personal p	protective equipment recommendations
			vide adequate ventila	
.2 Environmental precautions			-	
		I release to the en	vironment.	
.3 Methods and material for co				
	Swee	p up spilled subst	ance - avoid making	g dust. Use vacuum equipment for
				. Dispose of contents in accordance with
	local,	state or national I	legislation.	
.4 Reference to other sections	-			
	See A	Also Section 8, 13	3.	
ECTION 7: HANDLING AND ST	ORAGE			
.1 Precautions for safe handlin	a			
Advice on safe handling	•	I inhalation indest	tion and contact wit	h skin and eyes. Use only in a well-
tavior on sale nandling			protective clothing as	
tygiene measures			-	•
iyyicile ilicasules				us alter Handling, beible bleaks, alla al
.2 Conditions for safe storage			es	
				ainer tightly closed.
torage temperature	3-5 °C			
Storage life		e under normal co	onditions.	
lygiene measures 2 Conditions for safe storage,	Keep the er including an Store	away from food a nd of workday. I y incompatibiliti in a well-ventilate	and drink. Wash han	ds after handling, before breaks, and at
o 1			anditions	



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/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
Physical State	Solid: Powder.
Colour	Beige to Yellow.
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.
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

	None anticipated.
10.2 Chemical Stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	6
·	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produce	
	In the event of fire: see Section 5



SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effec	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.
Toxicity - Algae	No data available.
Toxicity - Sediment Compartment	Not classified.
Toxicity - Terrestrial Compartment	Not classified.
2.2 Persistence and Degradation	
	Not known.
2.3 Bioaccumulative potential	Net Leave
0.4 Mahilitu in sail	Not known.
12.4 Mobility in soil	Not known.
2.5 Results of PBT and vPvB asse	
2.5 Results of FBT and VFVB asse	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.
2.6 Endocrine disrupting properti	· · · · · · · · · · · · · · · · · · ·
proposition and a photometry of the p	Not known.
2.7 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDER	RATIONS
I3.1 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.
3.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORM	IATION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFOR	ΜΑΤΙΟΝ
SECTION 13. REGULATORT INFOR	
15.1 Safety, health and environmer	ntal regulations/legislation specific for the substance or mixture
European Regulations - Authorisatio	
Candidate List of Substances of Very	
High Concern for Authorisation	

 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 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	N
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	Nativasua
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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