

# 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	4',4''',4''''',4'''''''-(Ethene-1,1,2,2-tetrayl)tetrakis([1,1'-biphenyl]-4-carbaldehyde)
Synonyms	TABPE, ETTBC, TPE-Ph-CHO, 4-[4-[1,2,2-tris]4-(4-
	formylphenyl)phenyl]ethenyl]phenyl]benzaldehyde
Chemical Name	4',4''',4''''',4''''''''-(Ethene-1,1,2,2-tetrayl)tetrakis([1,1'-biphenyl]-4-carbaldehyde)
Chemical Formula	C54H36O4
CAS No.	1624970-54-2
EC No.	Not available.
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sul	ostance or mixture and uses advised against
Identified Use(s)	PC21 Laboratory chemicals, Research and development use only
1.2 Details of the supplier of the sefet	v data abaat

## 1.3 Details of the supplier of the safety data sheet

	Windsor Street	
Postal code	Sheffield S4 7WB. UK	
Telephone:	+441142999180	
E-mail	info@ossila.com	
Office hours	08:00 - 17:00	
1.4 Emergency telephone num	ber	
Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)	
Other Beriene		

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	4',4''',4'''''-(Ethene-1,1,2,2-tetrayl)tetrakis(([1,1'-biphenyl]-4-carbaldehyde))
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)	<ul> <li>P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.</li> <li>P302 + P352: IF ON SKIN: Wash with plenty of water.</li> <li>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P337 + P313: If eye irritation persists: Get medical advice/attention.</li> </ul>



## 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		FON	0(14/44)	
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
4',4''',4''''',4'''''''-(Ethene-1,1,2,2-	1624970-54-2	Not available.	≤ 100	Acute Tox. 4 H302
etrayl)tetrakis([1,1'-biphenyl]-			1	Skin Irrit. 2 H315
4-carbaldehyde)				Eye Irrit. 2 H319
				STOT SE 3 H335
<b>3.2 Mixtures</b> Not applicable.				
SECTION 4: FIRST AID MEAS	URES			
4.1 Description of first aid me	easures			
General Advice	First	aiders should ens	ure they have taker	adequate steps to protect themselves
	from	exposure (see Se	ction 8 for recomme	ended personal protection equipment)
			heet to the doctor i	
Inhalation				fortable for breathing. Get medical
		e/attention if you f		0
Skin Contact	Rinse	e skin with water. I	f skin irritation occu	rs, get medical advice/attention.
Eye Contact	Rinse	e cautiously with w	ater for several mir	nutes. Remove contact lenses, if present
		easy to do. Continu		
Ingestion				dvice/attention if you feel unwell.
I.2 Most important symptom				
				h acute and delayed, are included on
	lahal	ling (Section 2.2) a	and in Section 11	a deale and delayed, are molded off
4.3 Indication of any immedia	ate medical atte	ntion and specia	l treatment needer	4
R.5 multation of any minedia				4
	rieat	symptomatically.		
SECTION 5: FIREFIGHTING N	FASURES			
5.1 Extinguishing media				
Suitable Extinguishing media	As ar	opropriate for surro	ounding fire	
Unsuitable extinguishing media		opropriate for surro		
5.2 Special hazards arising fi			anding inc.	
opecial hazarus ansing h		on oxides		
5.3 Advice for firefighters	Call			
Auvice for menginers	Eiro f	ighters should we	ar complete protect	ive clothing including solf contained
		0	ai complete protect	ive clothing including self-contained
		hing apparatus.		
SECTION 6: ACCIDENTAL RE	LEASE MEASU	IRES		
6.1 Personal precautions, pro				
				protective equipment recommendations
		er section 8). Prov	ide adequate ventil	ation.
6.2 Environmental precaution		,		
•		d release to the en	vironment.	
6.3 Methods and material for				
			ance - avoid makin	g dust. Use vacuum equipment for
		· · · · · · · · · · · ·		e. Dispose of contents in accordance with
		state or national l		
6.4 Reference to other sectio		State of Hational I	cyisialion.	
A Reference to other sectio		Also Section 8, 13	1	
	3661			
SECTION 7: HANDLING AND	STORAGE			
7.1 Precautions for safe hand	dling			
Advice on safe handling		d inhalation, indest	ion, and contact with	th skin and eyes. Use only in a well-
in the second harding			rotective clothing a	
Hygiopo mogeuros			-	•
Hygiene measures			nu unnk. Wash har	nds after handling, before breaks, and at
		nd of workday.		
	a in cludin a cu	w incomposibilisi	••	
2 Conditions for safe stora				
7.2 Conditions for safe stora				ainer tightly closed.
7.2 Conditions for safe stora		in a well-ventilate		ainer tightly closed.



## 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		
<b>8.1 Control parameters</b> 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

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Physical State	Solid: Powder.
Colour	Bright Yellow to Green.
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

OLOTION IN: OTABILIT I AND REA	
10.1 Reactivity	
•	None anticipated.
10.2 Chemical Stability	
-	Stable under recommended storage conditions.
10.3 Possibility of hazardous reac	tions
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition pr	
	In the event of fire: see Section 5
SECTION 11: TOXICOLOGICAL INF	FORMATION

## 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	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 INFORMA	ΓΙΟΝ	
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		
	Not known.	
12.3 Bioaccumulative potential		
	Not known.	
12.4 Mobility in soil		
12.5 Results of PBT and vPvB assess	Not known.	
12.5 Results of PB1 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		
12.0 Endocrine disrupting properties	Not known.	
12.7 Other adverse effects	Not Niowii.	
	Not known.	
	1010	
SECTION 13: DISPOSAL CONSIDERAT	IONS	
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		
	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 INFORMATION		

## 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 REACH: ANNEX XIV list of substances Not listed subject to authorisation REACH: Annex XVII Restrictions on the Not listed manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Community Rolling Action Plan (CoRAP) Not listed Regulation (EC) N° 850/2004 of the Not listed European Parliament and of the Council on persistent organic pollutants



Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Regulation (EU) N° 649/2012 of the	Not listed Not listed
European Parliament and of the Council concerning the export and import of hazardous chemicals National regulations	
Other 15.2 Chemical Safety Assessment	Not known.
	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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