

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	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde
Synonyms	3'-(4-Formylphenyl)-[1,1'-biphenyl]-4-carbaldehyde
Cynonyma	4,4"-m-Terphenyldicarboxaldehyde
	4-[3-(4-Formylphenyl)phenyl]benzaldehyde
Chemical Name	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde
Chemical Formula	C20H14O2
CAS No.	171820-02-3
EC No.	Not available.
Index No.	Not available.
REACH Registration No.	Not applicable.
	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 safe	tv data sheet
Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
	Windsor Street
	Sheffield
Postal code	Sterneid S4 7WB, UK
	54 7WB, UK +441142999180
Telephone: E-mail	
	info@ossila.com
Office hours	08:00 - 17:00
1.4 Emergency telephone number Emergency Phone #	+44 (0) 20 3885 0382 (CHEMTREC)
Emergency Fhone #	+44 (0) 20 3003 0302 (CHEMITKEC)
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	2N
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
	STOT SE 3: May cause respiratory irritation
2.2 Label elements	
2.2 Laber elements	Assorting to Regulation (EC) No. 1979/2008 (CLR)
	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde
Product Name	
Product Name	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde
Product Name	
Product Name Hazard Pictogram(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07
Product Name	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde
Product Name Hazard Pictogram(s) Signal Word(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07
Product Name Hazard Pictogram(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation
Product Name Hazard Pictogram(s) Signal Word(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation H319: Causes serious eye irritation
Product Name Hazard Pictogram(s) Signal Word(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation
Product Name Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Product Name Hazard Pictogram(s) Signal Word(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation P302 + P352: IF ON SKIN: Wash with plenty of water.
Product Name Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation P302 + P352: IF ON SKIN: Wash with plenty of water. P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.
Product Name Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation H319: Causes serious eye irritation H319: Causes serious eye irritation H335: May cause respiratory irritation 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.
Product Name Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation H319: Causes serious eye irritation H319: Causes serious eye irritation H335: May cause respiratory irritation 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.
Product Name Hazard Pictogram(s) Signal Word(s) Hazard Statement(s)	1,1':3',1"-Terphenyl-4,4"-dicarbaldehyde GHS07 Warning H315: Causes skin irritation H319: Causes serious eye irritation H319: Causes serious eye irritation H335: May cause respiratory irritation 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.
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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.

	Not a	ipplicable.		
SECTION 3: COMPOSITION/II	NFORMATION C	N INGREDIENTS		
3.1 Substances				
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
1,1':3',1"-Terphenyl-4,4"-	171820-02-3	Not available.		Skin Irrit. 2 H315
dicarbaldehyde				Eye Irrit. 2 H319
				STOT SE 3 H335
3.2 Mixtures	1	1		
Not applicable.				
SECTION 4: FIRST AID MEAS	URES			
4.1 Description of first aid m				
General Advice				en adequate steps to protect themselves
				nended personal protection equipment)
Inholation		this safety data sh		
Inhalation		ove person to fresh e/attention if you fe		mfortable for breathing. Get medical
Skin Contact				curs, get medical advice/attention.
Eye Contact				inutes. Remove contact lenses, if present
,		easy to do. Continue		· · · · · · · · · · · · · · · · · · ·
Ingestion				advice/attention if you feel unwell.
4.2 Most important symptom				
				oth acute and delayed, are included on
1.2 Indication of any immedia		ling (Section 2.2) ar		ad
4.3 Indication of any immedia		symptomatically.	treatment need	ea
	riea	symptomatically.		
SECTION 5: FIREFIGHTING N	IEASURES			
5.1 Extinguishing media				
Suitable Extinguishing media	As a	opropriate for surro	unding fire.	
Unsuitable extinguishing media		propriate for surro	unding fire.	
5.2 Special hazards arising fi	rom the substar	nce or mixture		
	Carb	on oxides		
5.3 Advice for firefighters	—	***		- Constant for the body of the stand of the standard
		ighters should wea hing apparatus.	r complete protec	ctive clothing including self-contained
	Diea	ning apparatus.		
SECTION 6: ACCIDENTAL RE	LEASE MEASU	RES		
6.1 Personal precautions, pro				
				Il protective equipment recommendations
6.2 Environmental procession	· ·	er section 8). Provi	de adequate ven	tilation.
6.2 Environmental precaution		d release to the env	ironment	
6.3 Methods and material for			nonment.	
			ince - avoid maki	ing dust. Use vacuum equipment for
				ble. Dispose of contents in accordance with
		state or national le	gislation.	
6.4 Reference to other section				
	See	Also Section 8, 13.		
SECTION 7: HANDLING AND	STORAGE			
7.1 Precautions for safe hand	dlina			
Advice on safe handling	Avoid	d inhalation, ingestio lated area. Wear pr		vith skin and eyes. Use only in a well- as per section 8
Hydiana maasuros			-	ands after handling, before breaks, and at
Hygiene measures		nd of workday.	iu unnk. Wash ha	anus aner nanuling, before breaks, and at
7.2 Conditions for safe stora		•	c	
7.2 Conditions for safe Stora				ntainer tightly closed.
Storage temperature	3-5 °		a place. Neep Col	
Storage life		-	ensitive. Handle	and store under inert gas. Store in dark.
Incompatible materials		e known.		
7.3 Specific end use(s)				
	Apar	t from the uses mer	ntioned 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.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES			
9.1 Information on basic physical and chemical properties			
Physical State	Solid: Powder		
Colour	Pale 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.		

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 Reactivity	
,	None anticipated.
10.2 Chemical Stability	·
-	Stable under recommended storage conditions.
10.3 Possibility of hazardous	s reactions
-	Not known.
10.4 Conditions to avoid	
	Not known.
0.5 Incompatible materials	
	Not known.
0.6 Hazardous decomposit	on 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	ION
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	INOL KHOWH.
12.5 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 (vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting properties	
12.6 Endocrine disrupting properties	Not known.
12.6 Endocrine disrupting properties12.7 Other adverse effects	Not known.
	Not known. Not known.
12.7 Other adverse effects	Not known.
	Not known.
12.7 Other adverse effects	Not known. IONS
12.7 Other adverse effects SECTION 13: DISPOSAL CONSIDERAT	Not known. IONS Dispose of contents in accordance with local, state or national legislation. Recycle
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 Regulation (EU) N° 649/2012 of the
 Not listed

 European Parliament and of the Council
 Second Parliament and of the Council

 concerning the export and import of
 Second Parliament and of the Council

 hazardous chemicals
 Not known.

 Noter
 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 : 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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