

# 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	2,3,3',4'-Biphenyltetracarboxylic dianhydride (a-BPDA)
Synonyms	3,4'-Biphthalic anhydride, 4,5'-Bi-2-benzofuran-1,1',3,3'-tetrone
Chemical Name	2,3,3',4'-Biphenyltetracarboxylic dianhydride
Chemical Formula	C16H6O6
CAS No.	36978-41-3
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 <i>only</i>
1.3 Details of the supplier of the safet	y 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)
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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 STOT SE 3: May cause respiratory irritation
2.2 Label elements	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 2,3,3',4'-Biphenyltetracarboxylic dianhydride (a-BPDA)
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation H319: Causes serious eye irritation H335: May cause respiratory irritation
Precautionary Statement(s)	<ul> <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

2,3,3',4'-Biphenyltetracarboxylic       36978-41-3       Not available.       \$100       Skin Irrit. 2 H315         dianhydride       STOT SE 3 H335         3.2 Mixtures         Not applicable.         SECTION 4: FIRST AID MEASURES         4.1 Description of first aid measures         General Advice         First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment)         Show this safety data sheet to the doctor in attendance.         Inhalation       Remove person to fresh air and keep comfortable for breathing. Get medical advice/attention.         Skin Contact       Rinse skin with water. If skin irritation occurs, get medical advice/attention.         Eye Contact       Rinse out mouth with water. Get medical advice/attention.         Rinse out mouth with water. Get medical advice/attention if you feel unwell.         4.2 Most important symptoms and effects, both acute and delayed         Most important symptoms and effects, both acute and delayed, are included on labelling (Section 2.2) and in Section 11.         4.3 Indication of any immediate medical attention and special treatment needed         Treat symptomatically.         SECTION 5: FIREFIGHTING MEASURES         5.1       Extinguishing media         Suitable Extinguishing media       As appropriate for surounding fire. <th>3.1 Substances</th> <th></th> <th></th> <th></th> <th></th>	3.1 Substances				
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3.2 Mixtures         3.2 Mixtures         Not applicable.         SECTION 4: FIRST AID MEASURES         3.1 Description of first aid measures         General Advice       First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment)         Show this safety data sheet to the doctor in attendance.         Inhalation       Remove person to fresh air and keep comfortable for breakting. Get medical advice/attention.         Skin Contact       Rines exit with water. If skin irritation occurs, get medical advice/attention.         Eye Contact       Rines exit with water. If skin irritation occurs, get medical advice/attention.         Eye Contact       Rines exit wold water delayed         2. Most important symptoms and effects, both acute and delayed.       Most important symptoms and effects, both acute and delayed, are included on labeling (Section 2.2) and in Section 11.         3.1 Indication of any immedia       As appropriate for surrounding fire.         3.3 Advice for firefighters       As appropriate for surrounding fire.         3.4 Section S. Advice for irrefighters       Fire fighters should wear complete protective equipment recommendations (as per section 8). Provide adequate ventilation.         3.1 Prosonal precautions, protective equipment and emergency procedures       Follow safe handling advice and personal protective equipment for collecing spilt materials, where practicable. Dispose of contents in acc	dianhydride				
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Incompatible materials None known.				Store under ine	ert gas.
	Incompatible materials	None kr	nown.		



# 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.	
<b>8.2 Exposure controls</b> 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

err intermation en baole phyoiear ana	
Physical State	Solid: Powder.
Colour	White/Off-White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	195-205 °C
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 haz	6
	Not known.
10.4 Conditions to avo	
	Not known.
10.5 Incompatible mat	
	Not known.
10.6 Hazardous decon	
	In the event of fire: see Section 5
	in the event of me. see Section 3
SECTION 11 TOXICOL	OGICAL INFORMATION

# 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		
11.2.1 Endocrine disrupting properties	None known.	
11.2.2. Information on other hazards	None known.	
	None known.	
SECTION 12: ECOLOGICAL INFORMA	TION	
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		
	Not known.	
12.5 Results of PBT and vPvB assess	ment	
	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	· · · · · · · · · · · · · · · · · · ·	
	Not known.	
12.7 Other adverse effects		
	Not known.	
SECTION 13: DISPOSAL CONSIDERA	TIONS	
13.1 Waste treatment methods		
13.1 Waste treatment methous	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	
40.0 Additional Information	incinerator.	
13.2 Additional Information	Discussed allowed differs to a second and a with the set of the second for all the side of the	
	Disposal should be in accordance with local, state or national legislation.	
SECTION 14: TRANSPORT INFORMATION		
	Net deer 20 dee bewerden for two west	
IATA/IMO/RID/ADR	Not classified as hazardous for transport.	
SECTION 15: REGULATORY INFORM	ATION	

## 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 European Parliament and of the Council concerning the export and import of hazardous chemicals <b>National regulations</b>	Not listed Not listed
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 : Internediate Bulk Container ICAO : International Air Transport Association 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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