

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':4',1":4",1"'-Quaterphenyl]-4,4"'-diamine
Synonyms	QPDA, 4-[4-[4-(4-Aminophenyl)phenyl]phenyl]aniline, p,p'-Diaminoquaterphenyl
Chemical Name	[1,1':4',1":4",1"'-Quaterphenyl]-4,4"'-diamine
Chemical Formula	C24H20N2
CAS No.	53693-67-7
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 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)

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. Acute Tox. 4: Harmful in contact with skin. Acute Tox. 4: Harmful if inhaled Muta. 2: Suspected of causing genetic defects Carc. 1A: May cause cancer
2.2 Label elements	
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) [1,1':4',1":4",1"-Quaterphenyl]-4,4"'-diamine
Hazard Pictogram(s)	GHS07 GHS08
Signal Word(s)	Danger
Hazard Statement(s)	H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled H341: Suspected of causing genetic defects H350: May cause cancer
Precautionary Statement(s)	 P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth. P302 + P352 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor if you feel unwell. P304 + P340 + P312: If INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P318: If exposed or concerned: Get medical advice/attention. P337 + P317: 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

Hazardous ingredient(s) CAS No. EC No. %WW Hazard Statement(s) (1,1'4,1'*,1'*,1'*-Quaterphenyl): S3893-67-7 Not available. <100 Acute Tox. 4 H302 (1,1'4,1'*,1'*,1'*-Quaterphenyl): S3893-67-7 Not available. <100 Acute Tox. 4 H302 Acute Tox. 4 H312 Acute Tox. 4 H312 Acute Tox. 4 H312 Acute Tox. 4 H312 Acute Tox. 4 H330 Muta. 2 H341 Carc. 1 A H350 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) Stort to first aid measures Section 8 for recommended personal protection equipment) Stort to first aid measures Section 8 for recommended personal protection equipment) Stort to first aiders should ensure they have taken adequate steps to protect themselves First aiders should ensure they have taken adequate steps to protect themselves Not material measures Section 8 for measures Section 8 for recommende	3.1 Substances				
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Storage temperature 3-5 °C	7.2 Conditions for safe stora				
5 1	0			d place. Keep con	itainer tightly closed.
Storage life Product is air sensitive. Handle and store under inert gas.					under inert and
	Slorage lie	Proc	iuct is all sensitive.	nanule and store	under men gas.



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 parameters8.1.1 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	Pale Brown to Brown.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	312-315 °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.
рН	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

None anticipated.

10.2 Chemical Stability	
-	Stable under recommended storage conditions.
10.3 Possibility of hazardous reactions	5
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produc	cts
	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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