

## 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	2,2'-Bis(trifluoromethyl)-4,4'-diaminodiphenyl ether (6FODA)	
Synonyms	4,4'-Oxybis[3-(trifluoromethyl)aniline], Bis(4-amino-2-trifluoromethylphenyl) ether	
Chemical Name	2,2'-Bis(trifluoromethyl)-4,4'-diaminodiphenyl ether	
Chemical Formula	C14H10F6N2O	
CAS No.	344-48-9	
EC No.	Not available.	
Index No.	Not available.	
REACH Registration No.	Not applicable.	
1.2 Relevant identified uses of the substance 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 safety		
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)	<b>mixture</b> Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLD)
Product Name	According to Regulation (EC) No. 1272/2008 (CLP) 2,2'-Bis(trifluoromethyl)-4,4'-diaminodiphenyl ether (6FODA)
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H315: Causes skin irritation H319: Causes serious eye irritation
Precautionary Statement(s)	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. 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

3.1 Substances	[	<b>I</b> =		
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
2,2'-Bis(trifluoromethyl)-4,4'-	344-48-9	Not available.	≤ 100	Skin Irrit. 2 H315
diaminodiphenyl ether				Eye Irrit. 2 H319
3.2 Mixtures	·		<u>.</u>	
Not applicable.				
SECTION 4: FIRST AID MEAS				
	ONLO			
4.1 Description of first aid me				
General Advice				lequate steps to protect themselves
				ed personal protection equipment)
Inhalation		his safety data sheet to e person to fresh air ar		able for breathing. Get medical
		attention if you feel un		asie for breathing. Oet medical
Skin Contact				get medical advice/attention.
Eye Contact				es. Remove contact lenses, if present
	and ea	sy to do. Continue rins	ing.	
Ingestion			Bet medical advi	ce/attention if you feel unwell.
4.2 Most important symptom			l affa ata di si	
	Most in	nportant symptoms and	a effects, both a	cute and delayed, are included on
4.3 Indication of any immedia	nilibusi ate medical attent	g (Section 2.2) and in S	ment needed	
		ymptomatically.	nont necucu	
SECTION 5: FIREFIGHTING N	IEASURES			
5.1 Extinguishing media				
Suitable Extinguishing media	As app	ropriate for surrounding	g fire.	
Unsuitable extinguishing media	ı As app	ropriate for surrounding		
5.2 Special hazards arising fi	rom the substanc	e or mixture	-	
_		oxides		
		en fluoride		
5.3 Advice for firefighters	Nitroge	n oxides (NOx)		
5.3 Advice for firefighters	Fire fig	hters should wear com	plete protective	clothing including self-contained
		ng apparatus.	p.010 p10100110	
		• • • •		
SECTION 6: ACCIDENTAL RE	LEASE MEASUR	ES		
6.1 Personal precautions, pro	otective equinme	nt and emergency pro	ocedures	
				tective equipment recommendations
		section 8). Provide ad		
6.2 Environmental precaution	· · ·	,		
		elease to the environm	ient.	
6.3 Methods and material for	containment and	cleaning up	and the second second	
				ust. Use vacuum equipment for
				Dispose of contents in accordance with
6.4 Reference to other sectio		tate or national legislat	IOII.	
		so Section 8, 13.		
SECTION 7: HANDLING AND	STORAGE			
7.1 Precautions for safe hand	dling			
Advice on safe handling		nhalation indestion or	nd contact with s	kin and eyes. Use only in a well-
and the faile handling		ed area. Wear protecti		
Hygiene measures			- ·	after handling, before breaks, and at
		of workday.		and broards, before broards, and at
7.2 Conditions for safe stora				
		n a well-ventilated place	e. Keep contain	er tightly closed.
Storage temperature	Ambier		-	-



Incompatible materials

7.3 Specific end use(s)

Storage life

Stable under normal conditions. None known.

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

of a mornation on basic physical an	
Physical State	Solid: Powder.
Colour	White/Off-White.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	127 °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 (lo	g 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	
		Not known.
10.4	Conditions to avoid	Net la euro
40 E	In a sum atible materials	Not known.
10.5	Incompatible materials	Not known.
10.6	Hazardous decomposition produc	
10.0	Hazardous decomposition produc	In the event of fire: see Section 5
		In the event of file. 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	
	Not known.
12.4 Mobility in soil	Allet Lorenza
12.5. Describe of DDT and vDvD asso	Not known.
2.5 Results of PBT and vPvB 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	, , , , , , , , , , , , , , , , , , ,
2.0 Endocrine disrupting properti	Not known.
2.7 Other adverse effects	Not Niowi.
	Not known.
SECTION 13: DISPOSAL CONSIDE	RATIONS
3.1 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	
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 manufacture, placing 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	
Regulation (EU) N° 649/2012 of the European Parliament and of the Council	Not listed
concerning the export and import of	
hazardous chemicals	
National regulations	
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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