

## 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	9,9-Bis(4-aminophenyl)fluorene(FDA)
Synonyms	4,4'-(9-Fluorenylidene)dianiline, 4-[9-(4-Aminophenyl)-9H-fluoren-9-yl]phenylamine
Chemical Name	9,9-Bis(4-aminophenyl)fluorene
Chemical Formula	C25H20N2
CAS No.	15499-84-0
EC No.	Not available.
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the su	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
<b>1.3 Details of the supplier of the safet</b> Company Identification	<b>y data sheet</b> Ossila Limited
••	
Company Identification	Ossila Limited
Company Identification	Ossila Limited Solpro Business Park
Company Identification	Ossila Limited Solpro Business Park Windsor Street
Company Identification Address of Supplier	Ossila Limited Solpro Business Park Windsor Street Sheffield
Company Identification Address of Supplier Postal code	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK
Company Identification Address of Supplier Postal code Telephone: E-mail Office hours	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180
Company Identification Address of Supplier Postal code Telephone: E-mail	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com
Company Identification Address of Supplier Postal code Telephone: E-mail Office hours	Ossila Limited Solpro Business Park Windsor Street Sheffield S4 7WB, UK +441142999180 info@ossila.com

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 of Regulation (EC) No. 1272/2008 (CLP)	r mixture Acute Tox. 4: Harmful if swallowed. Acute Tox. 4: Harmful in contact with skin. Acute Tox. 4: Harmful if inhaled 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) 9,9-Bis(4-aminophenyl)fluorene(FDA)
Hazard Pictogram(s)	GHS07
Signal Word(s)	Warning
Hazard Statement(s)	H302+H312+H332: Harmful if swallowed, in contact with skin or if inhaled 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 + P312: IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor if you feel unwell.</li> <li>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.</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>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				
	CAS No.	EC No.	%W/W	Hazard Statement(s)
9,9-Bis(4-aminophenyl)fluorene	5499-84-0	Not available.	≤ 100	Acute Tox. 4 H302
				Acute Tox. 4 H312 Acute Tox. 4 H332
				Eye Irrit. 2 H319
				STOT SE 3 H335
<b>3.2 Mixtures</b> Not applicable.				
SECTION 4: FIRST AID MEASUR	ES			
4.1 Description of first aid meas	ures			
General Advice	First aid			lequate steps to protect themselves
				ed personal protection equipment)
nhalation		s safety data sheet to		
Innalation		ttention if you feel unv		able for breathing. Get medical
Skin Contact				get medical advice/attention.
Eye Contact				es. Remove contact lenses, if present
-	and easy	/ to do. Continue rinsi	ng.	· ·
ngestion			et medical advi	ce/attention if you feel unwell.
.2 Most important symptoms a			- <b>H</b>	
				cute and delayed, are included on
.3 Indication of any immediate		(Section 2.2) and in S		
		mptomatically.		
ECTION 5: FIREFIGHTING MEA	SURES			
.1 Extinguishing media				
Suitable Extinguishing media		priate for surrounding		
Jnsuitable extinguishing media 5.2 Special hazards arising from		priate for surrounding	fire.	
5.2 Special hazards arising from	Carbon (			
		oxides (NOx)		
.3 Advice for firefighters		( - )		
Fire fighters should wear complete protective clothing including self-contained				
	breathing	g apparatus.		
SECTION 6: ACCIDENTAL RELE	ASE MEASURE	S		
6.1 Personal precautions, protect	tive equinment			
	Follow s	afe handling advice ar	nd personal pro	tective equipment recommendations
	Follow s		nd personal pro	
5.2 Environmental precautions	Follow s (as per s	afe handling advice ar ection 8). Provide ade	nd personal pro equate ventilation	
3.2 Environmental precautions	Follow s (as per s Avoid re	afe handling advice an section 8). Provide ade lease to the environm	nd personal pro equate ventilation	
	Follow s (as per s) Avoid re ntainment and (	afe handling advice an section 8). Provide add lease to the environme cleaning up	nd personal pro equate ventilatio ent.	on.
	Follow s (as per s Avoid re ntainment and o Sweep u	afe handling advice an ection 8). Provide add lease to the environme cleaning up up spilled substance -	nd personal pro equate ventilatio ent. avoid making d	on. ust. Use vacuum equipment for
	Follow s (as per s Avoid re ntainment and Sweep u collecting	afe handling advice an ection 8). Provide add lease to the environme cleaning up up spilled substance -	nd personal pro equate ventilatio ent. avoid making d e practicable. D	on.
.3 Methods and material for co	Follow s (as per s Avoid re ntainment and o Sweep u collecting local, sta	afe handling advice an section 8). Provide ade lease to the environme cleaning up up spilled substance - g spilt materials, wher ate or national legislati	nd personal pro equate ventilatio ent. avoid making d e practicable. D	on. ust. Use vacuum equipment for
.3 Methods and material for co	Follow s (as per s Avoid re ntainment and o Sweep u collecting local, sta	afe handling advice an section 8). Provide add lease to the environme cleaning up up spilled substance - g spilt materials, wher	nd personal pro equate ventilatio ent. avoid making d e practicable. D	on. ust. Use vacuum equipment for
.3 Methods and material for con .4 Reference to other sections	Follow s (as per s Avoid re ntainment and o Sweep u collecting local, sta See Also	afe handling advice an section 8). Provide ade lease to the environme cleaning up up spilled substance - g spilt materials, wher ate or national legislati	nd personal pro equate ventilatio ent. avoid making d e practicable. D	on. ust. Use vacuum equipment for
6.3 Methods and material for con 6.4 Reference to other sections SECTION 7: HANDLING AND STO	Follow s (as per s Avoid re ntainment and o Sweep u collecting local, sta See Also DRAGE	afe handling advice an section 8). Provide ade lease to the environme cleaning up up spilled substance - g spilt materials, wher ate or national legislati	nd personal pro equate ventilatio ent. avoid making d e practicable. D	on. ust. Use vacuum equipment for
5.3 Methods and material for con 5.4 Reference to other sections SECTION 7: HANDLING AND STO 7.1 Precautions for safe handlin	Follow s (as per s Avoid re ntainment and o Sweep L collectin, local, sta See Also DRAGE	afe handling advice an section 8). Provide ade lease to the environme cleaning up Ip spilled substance - g spilt materials, wher the or national legislati o Section 8, 13.	nd personal pro equate ventilatio ent. avoid making d e practicable. D on.	on. ust. Use vacuum equipment for dispose of contents in accordance with
<ul> <li>5.2 Environmental precautions</li> <li>5.3 Methods and material for cons</li> <li>6.4 Reference to other sections</li> <li>6.5 ECTION 7: HANDLING AND STORMAND STORMALING AND AND STORMALING AND AND AND AND AND AND AND AND AND AND</li></ul>	Follow s (as per s Avoid re ntainment and o Sweep u collectin, local, sta See Also DRAGE g Avoid inl	afe handling advice an section 8). Provide ade lease to the environme cleaning up up spilled substance - g spilt materials, wher the or national legislati o Section 8, 13.	nd personal pro equate ventilation ent. avoid making d e practicable. D on. d contact with s	on. ust. Use vacuum equipment for bispose of contents in accordance with kin and eyes. Use only in a well-
5.3 Methods and material for con 5.4 Reference to other sections SECTION 7: HANDLING AND STO 7.1 Precautions for safe handlin Advice on safe handling	Follow s (as per s Avoid re ntainment and o Sweep u collectin, local, sta See Also DRAGE g Avoid inl ventilate	afe handling advice an section 8). Provide ade lease to the environme cleaning up up spilled substance - g spilt materials, wher the or national legislati o Section 8, 13.	nd personal pro equate ventilation ent. avoid making d e practicable. D on. d contact with s re clothing as p	bn. ust. Use vacuum equipment for hispose of contents in accordance with kin and eyes. Use only in a well- er section 8.
5.3 Methods and material for con 5.4 Reference to other sections SECTION 7: HANDLING AND STO 7.1 Precautions for safe handling	Follow s (as per s Avoid re Sweep u collecting local, sta See Also DRAGE g Avoid inl ventilate Keep aw	afe handling advice an section 8). Provide ade lease to the environme cleaning up up spilled substance - g spilt materials, wher the or national legislati o Section 8, 13.	nd personal pro equate ventilation ent. avoid making d e practicable. D on. d contact with s re clothing as p	on. ust. Use vacuum equipment for bispose of contents in accordance with kin and eyes. Use only in a well-
Methods and material for con     A Reference to other sections     ECTION 7: HANDLING AND STO     Advice on safe handling     Hygiene measures	Follow s (as per s Avoid re Sweep u collecting local, sta See Also DRAGE g Avoid inl ventilate Keep aw the end	afe handling advice an section 8). Provide add clease to the environme cleaning up up spilled substance - g spilt materials, wher the or national legislati o Section 8, 13.	nd personal pro equate ventilation ent. avoid making d e practicable. D on. d contact with s re clothing as p	bn. ust. Use vacuum equipment for hispose of contents in accordance with kin and eyes. Use only in a well- er section 8.
5.3 Methods and material for con 5.4 Reference to other sections 5.5 SECTION 7: HANDLING AND STO 7.1 Precautions for safe handling Advice on safe handling Hygiene measures	Follow s (as per s Avoid re Sweep u collecting local, sta See Also DRAGE g Avoid inl ventilate Keep aw the end including any i	afe handling advice an section 8). Provide add clease to the environme cleaning up up spilled substance - g spilt materials, wher the or national legislati o Section 8, 13.	nd personal pro equate ventilation ent. avoid making di e practicable. Do on. d contact with s ve clothing as pi k. Wash hands	bn. ust. Use vacuum equipment for lispose of contents in accordance with kin and eyes. Use only in a well- er section 8. after handling, before breaks, and at
5.3 Methods and material for con 5.4 Reference to other sections SECTION 7: HANDLING AND STO 7.1 Precautions for safe handlin	Follow s (as per s Avoid re Sweep u collecting local, sta See Also DRAGE g Avoid inl ventilate Keep aw the end including any in Store in Ambient	afe handling advice an section 8). Provide ade lease to the environme cleaning up up spilled substance - g spilt materials, when the or national legislati o Section 8, 13.	nd personal pro equate ventilation ent. avoid making di e practicable. Do on. d contact with s re clothing as pro k. Wash hands e. Keep containe	bn. ust. Use vacuum equipment for lispose of contents in accordance with kin and eyes. Use only in a well- er section 8. after handling, before breaks, and at



# 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/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
Physical State	Solid: Powder.
Colour	White/Pale Yellow.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	237-239 °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
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10.1	Reactivity	
	-	

None anticipated.

10.2 Chemical Stability	None anticipated.
10.2 Onennear Otabinty	Stable under recommended storage conditions.
10.3 Possibility of hazardous reaction	0
•	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produce	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.
12.2 Persistence and Degradation	
	Not known.
12.3 Bioaccumulative potential	
12.4 Mobility in soil	Not known.
12.4 Mobility in soil	Not known.
12.5 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.
12.6 Endocrine disrupting propertie	
51 J	Not known.
2.7 Other adverse effects	
	Not known.
SECTION 13: DISPOSAL CONSIDER	ATIONS
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.
3.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORM	ATION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFOR	MATION
	ntal regulations/legislation specific for the substance or mixture
European Regulations - Authorisation	
Candidate List of Substances of Very	Not listed
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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