

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	1,3,5-Tris(4-aminophenyl)benzene
Synonyms	TAPB, 5'-(4-aminophenyl)-[1,1':3',1"-terphenyl]-4,4"-diamine
Chemical Name	1,3,5-Tris(4-aminophenyl)benzene
Chemical Formula	C24H21N3
CAS No.	118727-34-7
EC No.	Not available.
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the su	Ibstance 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
ne betane er me cappner er me care	
Company Identification	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

08:00 - 17:00

E-mail Office hours 1.4 Emergency telephone number Emergency Phone

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	

+44 (0) 20 3885 0382 (CHEMTREC)

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) 1,3,5-Tris(4-aminophenyl)benzene
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)	 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. 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

Hazardous ingredient(s)				
	CAS No.	EC No.	%W/W	Hazard Statement(s)
1,3,5-Tris(4- aminophenyl)benzene	118727-34-7	Not available.	≪ 100	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335
3.2 Mixtures Not applicable.		-		
SECTION 4: FIRST AID MEAS	URES			
4.1 Description of first aid m	02511705			
General Advice	First from		ction 8 for recomme	a adequate steps to protect themselves ended personal protection equipment) n attendance.
Inhalation	Rem		n air and keep com	fortable for breathing. Get medical
Skin Contact	Rins	e skin with water. If	skin irritation occu	rs, get medical advice/attention.
Eye Contact		e cautiously with wa easy to do. Continu		nutes. Remove contact lenses, if present
Ingestion				dvice/attention if you feel unwell.
4.2 Most important symptom	is and effects, b	oth acute and del	ayed	
		important symptor ling (Section 2.2) a		h acute and delayed, are included on
4.3 Indication of any immedia	ate medical atte			d
SECTION 5: FIREFIGHTING N	FASURES			
5.1 Extinguishing media Suitable Extinguishing media	As a	ppropriate for surro	unding fire	
Unsuitable extinguishing media		ppropriate for surro		
5.2 Special hazards arising f				
		on oxides gen oxides (NOx)		
5.3 Advice for firefighters	T T T T T T T T T T T T T T T T T T T	gen oxides (NOX)		
-		fighters should wea thing apparatus.	ar complete protect	ive clothing including self-contained
SECTION 6: ACCIDENTAL RE	ELEASE MEASU	JRES		
6.1 Personal precautions, pro		nent and emergen	cy procedures	
		w safe handling ad		protective equipment recommendations ation.
6.2 Environmental precaution	(as p ns	w safe handling ad er section 8). Provi	ide adequate venti	
	(as p ns Avoi	w safe handling ad her section 8). Provi d release to the env	ide adequate venti	
	(as p ns • containment a Swe colle	w safe handling ad ber section 8). Provi d release to the env nd cleaning up ep up spilled substa	ide adequate ventil vironment. ance - avoid makin s, where practicable	
6.3 Methods and material for	(as p Avoi • containment a Swe colle local	w safe handling ad ber section 8). Provi d release to the env nd cleaning up ep up spilled substa cting spilt materials	ide adequate ventil vironment. ance - avoid makin s, where practicable egislation.	ation. g dust. Use vacuum equipment for
 6.2 Environmental precaution 6.3 Methods and material for 6.4 Reference to other section SECTION 7: HANDLING AND 	(as p Avoi • containment a Swe colle local ons See	w safe handling ad ber section 8). Provi d release to the env nd cleaning up ep up spilled substa cting spilt materials , state or national le	ide adequate ventil vironment. ance - avoid makin s, where practicable egislation.	ation. g dust. Use vacuum equipment for
6.3 Methods and material for 6.4 Reference to other section SECTION 7: HANDLING AND	(as p Avoi containment a Swe colle local ons See STORAGE	w safe handling ad ber section 8). Provi d release to the env nd cleaning up ep up spilled substa cting spilt materials , state or national le	ide adequate ventil vironment. ance - avoid makin s, where practicable egislation.	ation. g dust. Use vacuum equipment for
6.3 Methods and material for 6.4 Reference to other section SECTION 7: HANDLING AND	(as p Avoi containment a Swe colle local ons See STORAGE dling Avoi	w safe handling ad ber section 8). Provi d release to the env nd cleaning up ep up spilled substr cting spilt materials , state or national le Also Section 8, 13	ide adequate ventil vironment. ance - avoid makin , where practicable egislation.	ation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well-
6.3 Methods and material for 6.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe hand	(as p Avoi containment a Swe colle local loca sons See STORAGE dling Avoi vent Keep	w safe handling ad ber section 8). Provi d release to the em nd cleaning up ep up spilled substa cting spilt materials , state or national le Also Section 8, 13 d inhalation, ingesti lated area. Wear p	ide adequate ventil vironment. ance - avoid makin , where practicable egislation. ion, and contact wi rotective clothing a	ation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well-
 6.3 Methods and material for 6.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe hand Advice on safe handling 	(as p Avoi containment a Swe colle local ons See STORAGE dling Avoi vent Keep the c	w safe handling ad ber section 8). Provided a release to the environ and cleaning up ep up spilled substaticting spill materials , state or national left Also Section 8, 13 d inhalation, ingestive lated area. Wear pro- o away from food and of workday. hy incompatibilitie	ide adequate ventil vironment. ance - avoid makin , where practicable egislation.	ation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well- s per section 8. Ids after handling, before breaks, and at
 6.3 Methods and material for 6.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe handling Hygiene measures 7.2 Conditions for safe stora Storage temperature 	(as p Avoi containment a Swe colle local ons SEC STORAGE dling Avoi vent Keep the c age, including a Store 3-5 °	w safe handling ad ber section 8). Provi d release to the envi ep up spilled substa- cting spilt materials , state or national le Also Section 8, 13 d inhalation, ingesti lated area. Wear pro- o away from food ar and of workday. hy incompatibilitie in a well-ventilated C	ide adequate ventil vironment. ance - avoid makin , where practicable egislation. ion, and contact wi rotective clothing a nd drink. Wash har es d place. Keep cont	ation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well- s per section 8. Ids after handling, before breaks, and at ainer tightly closed.
 6.3 Methods and material for 6.4 Reference to other section SECTION 7: HANDLING AND 7.1 Precautions for safe handling Hygiene measures 7.2 Conditions for safe stora Storage temperature Storage life 	(as p Avoi containment a Swe colle local ons See STORAGE dling Avoi vent Keep the e ge, including a Stor 3-5 ° Prod	w safe handling ad ber section 8). Provide the release to the environ of cleaning up ep up spilled substa- cting spilt materials , state or national le Also Section 8, 13 d inhalation, ingesti- lated area. Wear pro- o away from food at and of workday. hy incompatibilitie of a well-ventilated C uct is air sensitive.	ide adequate ventil vironment. ance - avoid makin , where practicable egislation. ion, and contact wi rotective clothing a nd drink. Wash har es d place. Keep cont	ation. g dust. Use vacuum equipment for e. Dispose of contents in accordance with th skin and eyes. Use only in a well- s per section 8. nds after handling, before breaks, and at ainer tightly closed.
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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

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

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	263 °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.

10.1 Reactivity		
-	None anticipated.	
10.2 Chemical Stability	•	
-	Stable under recommended storage conditions.	
10.3 Possibility of hazardous read	ctions	
-	Not known.	
10.4 Conditions to avoid		
	Not known.	
10.5 Incompatible materials		
	Not known.	
10.6 Hazardous decomposition p	roducts	
	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.
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 STOT - single exposure	No data available. 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 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. Not classified.
Toxicity - Terrestrial Compartment 12.2 Persistence and Degradation	Not Classified.
	Not known.
12.3 Bioaccumulative potential	
	Not known.
12.4 Mobility in soil	Netknown
12.5 Results of PBT and vPvB assess	Not known. 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.
12.6 Endocrine disrupting properties12.7 Other adverse effects	Not known.
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	Not known.
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 12.7 Other adverse effects SECTION 13: DISPOSAL CONSIDERATION 13.1 Waste treatment methods 13.2 Additional Information SECTION 14: TRANSPORT INFORMATION SECTION 15: REGULATORY INFORMATION 15.1 Safety, health and environmental European Regulations - Authorisations Candidate List of Substances of Very 	Not known. Not known. TIONS 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. Disposal should be in accordance with local, state or national legislation. TON Not classified as hazardous for transport. TION regulations/legislation specific for the substance or mixture and/or Restrictions On Use
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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.

 Note
 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
	STOT : Specific Target Organ Toxicity UN : United Nations vPvB : very Persistent and very Bioaccumulative
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