

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	4,4'-Dimethyl-2,2'-bipyridyl
Synonyms	2,2'-Bi(y-picoline)
Chemical Name	4,4'-Dimethyl-2,2'-bipyridyl
Chemical Formula	C12H12N2
CAS No.	1134-35-6
EC No.	214-483-2
Index No.	Not available.
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sub	stance 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	/ data sheet
Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
	Windsor Street
	Shoffield

	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 mixture		
Regulation (EC) No. 1272/2008 (CLP)	Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation	
2.2. Label elements		
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)	
Product Name	4,4'-Dimethyl-2,2'-bipyridyl	
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

3.1 Substances				
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
4,4'-Dimethyl-2,2'-bipyridyl	1134-35-6	214-483-2	<= 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 me	easures			
General Advice				lequate steps to protect themselves
				ed personal protection equipment)
nhalation		his safety data sheet		able for breathing. Get medical
malation		attention if you feel u		able for breathing. Oct medical
Skin Contact				get medical advice/attention.
Eye Contact				es. Remove contact lenses, if present
		sy to do. Continue rin		
ngestion				ce/attention if you feel unwell.
I.2 Most important symptom				cute and delayed, are included on
		g (Section 2.2) and ir		cute and delayed, are included off
.3 Indication of any immedia				
•		mptomatically.		
SECTION 5: FIREFIGHTING N	IEASURES			
5.1 Extinguishing media				
Suitable Extinguishing media		opriate for surroundi		
Unsuitable extinguishing media		opriate for surroundi	ng fire.	
5.2 Special hazards arising fi				
	Carbon	n oxides (NOx)		
5.3 Advice for firefighters	Nilloye			
	Fire figh	nters should wear co	mplete protective	clothing including self-contained
		ng apparatus.		6 6
SECTION 6: ACCIDENTAL RE	LEASE MEASURI	ES		
6.1 Personal precautions, pro	otective equipmer	it and emergency p	rocedures	
	Follows	safe handling advice	and personal pro-	tective equipment recommendations
		section 8). Provide a	dequate ventilatio	on.
6.2 Environmental precaution		lesse to the environ	mont	
6.3 Methods and material for		elease to the environ	ment.	
5.5 Methous and material for			- avoid making d	ust. Use vacuum equipment for
				Dispose of contents in accordance with
		ate or national legisla	•	
6.4 Reference to other section	ons	Ũ		
	See Als	o Section 8, 13.		
SECTION 7: HANDLING AND	STORAGE			
7.1 Precautions for safe hand	dlina			
Advice on safe handling		halation, indestion.	and contact with s	kin and eyes. Use only in a well-
		ed area. Wear protec		
Hygiene measures			• •	after handling, before breaks, and at
		of workday.		-
7.2 Conditions for safe stora	ge, including any	incompatibilities		
		a well-ventilated pla	ce. Keep contain	er tightly closed.
Storage temperature	Ambien			
Storage life	Stable (under normal condition	DINS.	



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 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	Pale Pink.	
Odour	Not known.	
Odour threshold	Not known.	
Melting point/freezing point	169-174 °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

10.1	Reactivity
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10.1 Reactivity	
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None anticipated.

10.2 Chemical Stability	None anticipated.
10.2 Chemical Stability	Stable under recommended storage conditions.
10.3 Possibility of hazardous reaction	
	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
	Not known.
10.6 Hazardous decomposition produ	
	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	
	Not known.
12.4 Mobility in soil	
	Not known.
12.5 Results of PBT and vPvB ass	
	This substance/mixture contains no components considered to be either persistent
	bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative
10.C. Endoaring discusting property	(vPvB) at levels of 0.1% or higher.
12.6 Endocrine disrupting propert	Not known.
12.7 Other adverse effects	NOL KHOWH.
12.7 Other adverse effects	Not known.
SECTION 13: DISPOSAL CONSIDE	RATIONS
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 b
	an accredited disposal contractor. Send to a licensed recycler, reclaimer or
	incinerator.
13.2 Additional Information	
	Disposal should be in accordance with local, state or national legislation.
SECTION 14: TRANSPORT INFORM	NATION
IATA/IMO/RID/ADR	Not classified as hazardous for transport.
SECTION 15: REGULATORY INFOR	RMATION
15.1 Safety, health and environme	ntal regulations/legislation specific for the substance or mixture
European Regulations - Authorisation	
Candidate List of Substances of Very	/ Not listed
High Concern for Authorisation	

Candidate List of Substances of Very High Concern for Authorisation REACH: ANNEX XIV list of substances subject to authorisation REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles



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	Not listed
European Parliament and of the Council	
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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