

### 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	lr(btpy)3
Synonyms	Tris[2-(benzo[b]thiophen-2-yl)pyridinato-C3,N]iridium(III), fac-Tris[2- (benzo[b]thiophen-2-yl)pyridinato-C3,N]iridium(III), fac-Ir(btpy)3
Chemical Name	Tris(2-(benzo[b]thiophen-2-yl)pyridineiridium(III)
Chemical Formula	C39H24IrN3S3
CAS No.	405289-74-9
EC No.	Not available.
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
	Sheffield
Postal code	S4 7WB, UK
Telephone:	+441142999180
E-mail	info@ossila.com
Office hours	08:00 - 17:00
<b>1.4 Emergency telephone number</b> 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**

<b>2.1 Classification of the substance or</b> Regulation (EC) No. 1272/2008 (CLP)	<b>mixture</b> Skin Irrit. 2: Causes skin irritation Eye Irrit. 2: Causes serious eye irritation STOT SE 3: May cause respiratory irritation
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Ir(btpy)3
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)	<ul> <li>P302 + P352: IF ON SKIN: Wash with plenty of water.</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>P312: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P337 + P313: If eye irritation persists: Get medical advice/attention.</li> </ul>
2.3 Other hazards	

#### 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)
Tris(2-(benzo[b]thiophen-2- yl)pyridineiridium(III)	405289-74-9	Not available.	<= 100	Skin Irrit. 2 H315 Eye Irrit. 2 H319 STOT SE 3 H335
3.2 Mixtures Not applicable.				
SECTION 4: FIRST AID MEASU	IRES			
<b>4.1 Description of first aid me</b> General Advice	First aide from exp		for recommende	equate steps to protect themselves ed personal protection equipment) tendance.
Inhalation		person to fresh air an ttention if you feel un		able for breathing. Get medical
Skin Contact Eye Contact	Rinse sk Rinse ca	in with water. If skin i	rritation occurs, gor several minute	get medical advice/attention. s. Remove contact lenses, if present
Ingestion 4.2 Most important symptoms	Rinse ou	it mouth with water.		ce/attention if you feel unwell.
	Most imp	portant symptoms and		cute and delayed, are included on
4.3 Indication of any immedia	te medical attentio	(Section 2.2) and in Son and special treatment of the special treatment		
SECTION 5: FIREFIGHTING MI	EASURES			
<ul> <li>5.1 Extinguishing media</li> <li>Suitable Extinguishing media</li> <li>Unsuitable extinguishing media</li> <li>5.2 Special hazards arising from</li> </ul>	As appro om the substance Carbon o	oxides		
5.3 Advice for firefighters	Iridium o	oxides (NOx) xides		
-		ers should wear com g apparatus.	plete protective	clothing including self-contained
SECTION 6: ACCIDENTAL REI	LEASE MEASURE	S		
6.1 Personal precautions, pro	Follow s	afe handling advice a	nd personal prot	tective equipment recommendations
6.2 Environmental precaution	· ·	ection 8). Provide ad	equate ventilatio	in.
6.3 Methods and material for		lease to the environm	nent.	
	Sweep u collecting local, sta	p spilled substance -	re practicable. D	ust. Use vacuum equipment for ispose of contents in accordance with
6.4 Reference to other sectior		Section 8, 13.		
SECTION 7: HANDLING AND S	TORAGE			
7.1 Precautions for safe hand		alation in the second		
Advice on safe handling	ventilate	d area. Wear protecti	ve clothing as pe	
Hygiene measures		ay from food and drir of workday.	nk. Wash hands	after handling, before breaks, and at
7.2 Conditions for safe storag	e, including any i	•	e. Keep containe	er tightly closed.
Storage temperature	Ambient			
Storage life Incompatible materials 7.3 Specific end use(s)	Product None kn	is light sensitive. Stor own.	e in the dark.	
	Apart fro	m the uses mentione	d 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.
Ensure adequate ventilation and/or exhaust. A washing facility/water for eye and skin cleaning purposes should be present.
Wear eye protection with side protection tested and approved under appropriate government standards such as EN166 (EU).
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.
Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.
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.
None known.
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	Red.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	> 300 °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 value)	Not known.
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 hazardou	s reactions
-	Not known.
10.4 Conditions to avoid	
	Not known.
10.5 Incompatible materials	
·	Not known.
10.6 Hazardous decomposi	ion products
	In the event of fire: see Section 5

# SECTION 11: TOXICOLOGICAL INFORMATION

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.
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 INFORMAT	ΓΙΟΝ
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	
5	Not known.
12.3 Bioaccumulative potential	
•	Not known.
12.4 Mobility in soil	
•	Not known.
12.5 Results of PBT and vPvB assess	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	-
	Net he suit
	Not known.
12.7 Other adverse effects	Not known.
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	Not known.
SECTION 13: DISPOSAL CONSIDERAT	Not known.
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#### concerning the export and import of hazardous chemicals **National regulations** Other **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:

Not known.

#### LEGEND

Disclaimers

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 : Intermediate 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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implied warranty or condition (statutory or otherwise) is excluded except to the extent
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