

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	Zirconium diselenide crystal
Synonyms	Zirconium selenide, Diselenoxozirconium
Chemical Name	Zirconium diselenide
Chemical Formula	ZrSe2
CAS No.	12166-47-1
EC No.	235-325-9
Index No.	034-002-00-8
REACH Registration No.	Not applicable.
1.2 Relevant identified uses of the sub	ostance 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	v data sheet
Company Identification	Ossila Limited
Address of Supplier	Solpro Business Park
	Windsor Street
	Chaffiald

	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)	mixture Acute Tox. 3: Toxic if swallowed. Acute Tox. 3: Toxic if inhaled STOT RE 2: May cause damage to organs through prolonged or repeated exposure Aquatic Acute 1: Very toxic to aquatic life Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects
2.2 Label elements	According to Regulation (EC) No. 1272/2008 (CLP)
Product Name	Zirconium diselenide crystal
Hazard Pictogram(s)	GHS06 GHS08 GHS09
Signal Word(s)	Danger
Hazard Statement(s)	H301+H331: Toxic if swallowed or if inhaled H373: May cause damage to organs through prolonged or repeated exposure H400: Very toxic to aquatic life H410: Very toxic to aquatic life with long lasting effects
Precautionary Statement(s)	 P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P273: Avoid release to the environment. P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. P314: Get medical advice/attention if you feel unwell.



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

on cubolance				
Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
Zirconium diselenide	12166-47-1	235-325-9	<100	Acute Tox. 3 H301
				Acute Tox. 3 H331
				STOT RE 2 H373
				Aquatic Acute 1 H400
				Aquatic Chronic 1 H410

3.2 Mixtures Not applicable.

SECTION 4: FIRST AID MEASURES

 4.1 Description of first aid measures General Advice Inhalation Skin Contact Eye Contact Ingestion 4.2 Most important symptoms and effect 	First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment) Show this safety data sheet to the doctor in attendance. Remove person to fresh air and keep comfortable for breathing. If not breathing give artificial respiration. Call a POISON CENTER or doctor/physician. Rinse skin with water. If skin irritation occurs, get medical advice/attention. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Rinse mouth. ets, both acute and delayed Most important symptoms and effects, both acute and delayed, are included on
	labelling (Section 2.2) and in Section 11.
4.3 Indication of any immediate medica	al attention and special treatment needed Treat symptomatically.
SECTION 5: FIREFIGHTING MEASURES	3
 5.1 Extinguishing media Suitable Extinguishing media Unsuitable extinguishing media 5.2 Special hazards arising from the suitable 	As appropriate for surrounding fire. As appropriate for surrounding fire. Ibstance or mixture Zirconium oxides Selenium/selenium oxides
5.3 Advice for firefighters	Fire fighters should wear complete protective clothing including self-contained breathing apparatus.
SECTION 6: ACCIDENTAL RELEASE M	EASURES
6.1 Personal precautions, protective e	quipment and emergency procedures Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.
6.2 Environmental precautions	Avoid release to the environment.
6.3 Methods and material for containm	
6.4 Reference to other sections	See Also Section 8, 13.
SECTION 7: HANDLING AND STORAGE	
7.1. Propositions for sofe handling	
7.1 Precautions for safe handling Advice on safe handling	Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well- ventilated area. Wear protective clothing as per section 8.
Hygiene measures	Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.
7.2 Conditions for safe storage, includ	ing any incompatibilities
Storage temperature Storage life	Store in a well-ventilated place. Keep container tightly closed. Store locked up. Ambient. Stable under normal conditions.



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

UK - EH40 Workplace Exposure Limits (WEL).

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA	LTEL (8 hr TWA	STEL (ppm)	STEL (mg/m³)	Note
		ppm)	mg/m³)			
Selenium and compounds, except hydrogen selenide (as	12166-47-1		0.1			
Se)						
Region Source						

EU EU Occupational Exposure Limits

United Kingdom UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018)

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	No personal respiratory protection is necessary under normal circumstances.
Thermal hazards	None known.
8.2.3. Environmental Exposure Controls	Avoid release to the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid: Crystal.
Colour	Golden Brown.
Odour	Not known.
Odour threshold	Not known.
Melting point/freezing point	Not known.
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 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.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

10.2 Chemical Stability

None anticipated.

10.3 Possibility of hazardous reactions

Not known. 10.4 Conditions to avoid

Not known.

Stable under recommended storage conditions.



10.5 Incompatible materials	Not known.
10.6 Hazardous decomposition produ	cts
	In the event of fire: see Section 5
SECTION 11: TOXICOLOGICAL INFOR	MATION
11.1 Information on toxicological effe	
Acute toxicity - Ingestion	Toxic if swallowed. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).
Acute toxicity - Skin Contact	No data available.
Acute toxicity - Inhalation	Toxic if inhaled. Classified according to Regulation (EU) 1272/2008, Annex VI (Ta
Chin correction/invitation	3.1/3.2).
Skin corrosion/irritation	No data available. No data available.
Serious eye damage/irritation Skin sensitization data	
	No data available. No data available.
Respiratory sensitization data	No data available.
Germ cell mutagenicity	No data available.
Carcinogenicity Reproductive toxicity	No data available.
Lactation	No data available.
STOT - single exposure	No data available.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure. Classified
oror - repeated exposure	according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).
Aspiration hazard	No data available.
11.2 Information on other hazards	No data avallable.
11.2.1 Endocrine disrupting properties	
The assupting properties	None known.
11.2.2. Information on other hazards	None known.
	None known.
SECTION 12: ECOLOGICAL INFORMA	τιον
12.1 Toxicity	
	Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Classifi
	according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).
Toxicity - Aquatic invertebrates	Not known.
Toxicity - Fish	Not known. Not known.
Toxicity - Fish Toxicity - Algae	Not known. Not known. Not known.
Toxicity - Fish Toxicity - Algae Toxicity - Sediment Compartment	Not known. Not known. Not known. Not known.
Toxicity - Fish Toxicity - Algae Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment	Not known. Not known. Not known.
Toxicity - Fish Toxicity - Algae Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment	Not known. Not known. Not known. Not known.
Toxicity - Fish Toxicity - Algae Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment 12.2 Persistence and Degradation	Not known. Not known. Not known. Not known. Not known.
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Toxicity - Fish Toxicity - Algae Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment 12.2 Persistence and Degradation 12.3 Bioaccumulative potential 12.4 Mobility in soil 12.5 Results of PBT and vPvB assess	Not known. Not known. Not known. Not known. Not known. Not known. Not known. ment This substance/mixture contains no components considered to be either persister bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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Toxicity - Fish Toxicity - Algae Toxicity - Sediment Compartment	Not known. Not known. Not known. Not known. Not known. Not known. Not known. Mot known. Mot known. ment This substance/mixture contains no components considered to be either persister bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. Not known. Not known. Not known. Not known. Not known. Not known.
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14.3 Transport hazard class(es)	
ADR/RID	6.1
IMDG	6.1
IATA	6.1
14.4 Packing group	
Packing group	III
14.5 Environmental hazards	
Environmental hazards	Not classified as a Marine Pollutant.
14.6 Special precautions for user	
Special precautions for user	Not known.
14.7 Maritime transport in bulk accord	ling to IMO instruments
	Not known.

SECTION 15: REGULATORY INFORMATION

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 REACH: ANNEX XIV list of substances Not listed subject to authorisation REACH: Annex XVII Restrictions on the Not listed manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Community Rolling Action Plan (CoRAP) Not listed Regulation (EC) N° 850/2004 of the Not listed European Parliament and of the Council on persistent organic pollutants 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 : 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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