# 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

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>Iron phosphorus triselenide crystal</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Synonyms</strong></td>
<td>Iron selenophosphate</td>
</tr>
<tr>
<td><strong>Chemical Name</strong></td>
<td>Iron phosphorus triselenide</td>
</tr>
<tr>
<td><strong>Chemical Formula</strong></td>
<td>FePSe₃</td>
</tr>
<tr>
<td><strong>Product code</strong></td>
<td>M2208A*</td>
</tr>
<tr>
<td><strong>CAS No.</strong></td>
<td>Not available.</td>
</tr>
<tr>
<td><strong>EC No.</strong></td>
<td>Not Applicable.</td>
</tr>
<tr>
<td><strong>REACH Registration No.</strong></td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

| **Identified Use(s)** | PC21 Laboratory chemicals |

### 1.3 Details of the supplier of the safety data sheet

<table>
<thead>
<tr>
<th><strong>Company Identification</strong></th>
<th>Ossila Limited</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address of Supplier</strong></td>
<td>Solpro Business Park</td>
</tr>
<tr>
<td></td>
<td>Windsor Street</td>
</tr>
<tr>
<td></td>
<td>Sheffield</td>
</tr>
<tr>
<td><strong>Postal code</strong></td>
<td>S4 7WB, UK</td>
</tr>
<tr>
<td><strong>Telephone:</strong></td>
<td>+441142999180</td>
</tr>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:info@ossila.com">info@ossila.com</a></td>
</tr>
<tr>
<td><strong>Office hours</strong></td>
<td>08:00 - 17:00</td>
</tr>
</tbody>
</table>

## SECTION 2: HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute Tox. 3: Toxic if inhaled.</td>
</tr>
<tr>
<td></td>
<td>STOT RE 2: May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td></td>
<td>Aquatic Chronic 1: Very toxic to aquatic life with long lasting effects.</td>
</tr>
</tbody>
</table>

### 2.2 Label elements

<table>
<thead>
<tr>
<th><strong>Product Name</strong></th>
<th>According to Regulation (EC) No. 1272/2008 (CLP)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard Pictogram(s)</strong></td>
<td>Iron phosphorus triselenide crystal</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Signal Word(s)</strong></th>
<th>Danger</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Hazard Statement(s)</strong></td>
<td>H301 + H331: Toxic if swallowed or if inhaled.</td>
</tr>
<tr>
<td></td>
<td>H373: May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td></td>
<td>H410: Very toxic to aquatic life with long lasting effects.</td>
</tr>
<tr>
<td><strong>Precautionary Statement(s)</strong></td>
<td>P260: Do not breathe dust/fume/gas/mist/vapours/spray.</td>
</tr>
<tr>
<td></td>
<td>P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.</td>
</tr>
</tbody>
</table>

### 2.3 Other hazards

None known.

### 2.4 Additional Information

Not applicable.
SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Substances

<table>
<thead>
<tr>
<th>Hazardous ingredient(s)</th>
<th>CAS No.</th>
<th>EC No.</th>
<th>%W/W</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
</table>
| Iron phosphorus triselenide | Not available | Not Applicable | <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

**Inhalation**
Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

**Skin Contact**
Rinse skin with water. If skin irritation occurs, get medical advice/attention.

**Eye Contact**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Ingestion**
Immediately call a POISON CENTER or doctor/physician. Rinse mouth.

#### 4.2 Most important symptoms and effects, both acute and delayed

SECTION 11: Most important symptoms and effects, both acute and delayed

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable Extinguishing media
As appropriate for surrounding fire.

Unsuitable extinguishing media
As appropriate for surrounding fire.

#### 5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

#### 5.3 Advice for firefighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Wear protective clothing as per section 8.

#### 6.2 Environmental precautions

Avoid release to the environment.

#### 6.3 Methods and material for containment and cleaning up

Sweep up spilled substance but avoid making dust. Use vacuum equipment for collecting spill materials, where practicable. Dispose of contents in accordance with local, state or national legislation.

#### 6.4 Reference to other sections

See Also Section 8, 13.

SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Avoid breathing dust/aerosols. Use only in a well-ventilated area. Wear protective clothing as per section 8.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

**Storage temperature**
Ambient.

**Storage life**
Stable under normal conditions.

**Incompatible materials**
None known.

#### 7.3 Specific end use(s)

Not known. See Section: 1.2.

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. 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 (EN166).

Skin protection
Wear protective clothing and gloves: Impervious gloves (EN 374).

Respiratory protection
A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

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

Appearance
Solid: crystal
Colour: Dark brown

Odour
Not known.

Odour threshold
Not known.

pH
Not known.

Melting point/freezing point
Not known.

Initial boiling point and boiling range
Not known.

Flash Point
Not known.

Evaporation rate
Not known.

Flammability (solid, gas)
Not known.

Upper/lower flammability or explosive limits
Not known.

Vapour pressure
Not known.

Vapour density
Not known.

Density (g/ml)
Not known.

Relative density
Not known.

Solubility(ies)
Solubility (Water): Not known.
Solubility (Other): Not known.

Partition coefficient: n-octanol/water
Not known.

Auto-ignition temperature
Not known.

Decomposition Temperature (°C)
Not known.

Viscosity
Not known.

Explosive properties
Not known.

Oxidising properties
Not known.

9.2 Other information
None.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity
None anticipated.

10.2 Chemical Stability
Stable under normal conditions.

10.3 Possibility of hazardous reactions
Not known.

10.4 Conditions to avoid
Not known.

10.5 Incompatible materials
Not known.
10.6 Hazardous decomposition products

No hazardous decomposition products known.

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

<table>
<thead>
<tr>
<th>Effect Type</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute toxicity - Ingestion</td>
<td>Toxic if swallowed.</td>
</tr>
<tr>
<td>Acute toxicity - Skin Contact</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Acute toxicity - Inhalation</td>
<td>Toxic if inhaled.</td>
</tr>
<tr>
<td>Skin corrosion/irritation</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Serious eye damage/irritation</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Skin sensitization data</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Respiratory sensitization</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Germ cell mutagenicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Carcinogenicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Reproductive toxicity</td>
<td>Not classified.</td>
</tr>
<tr>
<td>Lactation</td>
<td>Not classified.</td>
</tr>
<tr>
<td>STOT - single exposure</td>
<td>Not classified.</td>
</tr>
<tr>
<td>STOT - repeated exposure</td>
<td>May cause damage to organs through prolonged or repeated exposure.</td>
</tr>
<tr>
<td>Aspiration hazard</td>
<td>Not classified.</td>
</tr>
</tbody>
</table>

#### 11.2 Other information

Not known.

### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1 Toxicity

- Very toxic to aquatic life with long lasting effects.
- Toxicity - Aquatic invertebrates: Not known.
- Toxicity - Fish: Not known.
- Toxicity - Algae: Not known.
- 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 assessment

Not known.

#### 12.6 Other adverse effects

Not known.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 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, reclamer or incinerator.

#### 13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

### SECTION 14: TRANSPORT INFORMATION

#### 14.1 UN number

- UN No.: 3283

#### 14.2 UN proper shipping name

- UN proper shipping name: Selenium compound, solid, n.o.s.

#### 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: Classified as a Marine Pollutant.

#### 14.6 Special precautions for user

- Special precautions for user: Not known.
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
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 High Concern for Authorisation Not listed
REACH: ANNEX XIV list of substances 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) Not listed
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed
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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