



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 | Manganese phosphorus triselenide crystal |
| Synonyms | Manganese selenophosphate |
| Chemical Name | Manganese phosphorus triselenide |
| Chemical Formula | MnPSe ₃ |
| Product code | M2210A* |
| CAS No. | Not available. |
| EC No. | Not Applicable |
| REACH Registration No. | Not applicable. |

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

| | |
|------------------------|---|
| 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 |

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

| | |
|-------------------------------------|---|
| Regulation (EC) No. 1272/2008 (CLP) | 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 Chronic 1: Very toxic to aquatic life with long lasting effects. |
|-------------------------------------|---|

2.2 Label elements

| | |
|--------------|--|
| Product Name | According to Regulation (EC) No. 1272/2008 (CLP) Manganese phosphorus triselenide crystal |
|--------------|--|

Hazard Pictogram(s)



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.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P260: Do not breathe dust/fume/gas/mist/vapours/spray.
P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.
P304 + P340 + P311: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician.

2.3 Other hazards

None known.

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) |
|----------------------------------|----------------|----------------|------|--|
| Manganese 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 spilt 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

| | |
|--------------------------------|---|
| Storage temperature | Store in a well-ventilated place. Keep container tightly closed. Store locked up. |
| Storage life | Ambient. |
| Incompatible materials | Stable under normal conditions. |
| 7.3 Specific end use(s) | None known. |

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**

| | |
|--------------------------------|--|
| Acute toxicity - Ingestion | Toxic if swallowed. |
| Acute toxicity - Skin Contact | Not classified. |
| Acute toxicity - Inhalation | Toxic if inhaled. |
| Skin corrosion/irritation | Not classified. |
| Serious eye damage/irritation | Not classified. |
| Skin sensitization data | Not classified. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. |
| Reproductive toxicity | Not classified. |
| Lactation | Not classified. |
| STOT - single exposure | Not classified. |
| STOT - repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not classified. |

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, reclaimer 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) Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants Not listed

Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer Not listed

Regulation (EU) N° 649/2012 of the European Parliament and of the Council concerning the export and import of hazardous chemicals Not listed

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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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