SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier
Product Name: Tantalum Disulfide Powder
Synonyms: Dithioxotantalum, Tantalum (IV) sulfide, Bis(sulfanylidene)tantalum
Chemical Name: Tantalum Disulfide
Chemical Formula: TaS2
Product code: M2144C
CAS No.: 12143-72-5
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, 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)
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements
According to Regulation (EC) No. 1272/2008 (CLP)
Product Name: Tantalum Disulfide Powder
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.

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. / REACH Registration No.</th>
<th>%W/W</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tantalum Disulfide</td>
<td>12143-72-5</td>
<td>Not applicable.</td>
<td></td>
<td>Skin Irrit. 2 H315</td>
</tr>
<tr>
<td></td>
<td></td>
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<td>Eye Irrit. 2 H319</td>
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<td></td>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3 H335</td>
</tr>
</tbody>
</table>

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. Get medical advice/attention if you feel unwell.

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: Rinse out mouth with water. Get medical advice/attention if you feel unwell.

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: 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 powder.
Colour: Dark brown.
Odour
Not known.
Odour threshold
Not known.
pH
Not known.
Melting point/freezing point
> 1,300 °C.
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 Not classified.
Acute toxicity - Skin Contact Not classified.
Acute toxicity - Inhalation Not classified.
Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation Causes serious eye irritation.
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 May cause respiratory irritation.
STOT - repeated exposure Not classified.
Aspiration hazard Not classified.

11.2 Other information

Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

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

IATA/IMO/RID/ADR Not classified as hazardous for transport.

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
Not listed

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

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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