

ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) &amp; 2015/830

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**
**1.1 Product identifier**

|                        |   |
|------------------------|---|
| Product Name           | TSPO1   |
| Synonyms               | Diphenylphosphine oxide-4-(triphenylsilyl)phenyl  |
| Chemical Name          | Diphenyl[4-(triphenylsilyl)phenyl]phosphine oxide |
| Chemical Formula       | C <sub>36</sub> H <sub>29</sub> OPSi              |
| CAS No.                | 1286708-86-8                                      |
| EC No.                 | Not available.                                    |
| 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<br>Windsor Street<br>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) | Skin Irrit. 2: Causes skin irritation<br>Eye Irrit. 2A: Causes serious eye irritation<br>STOT SE 3: May cause respiratory irritation |
|-------------------------------------|--|

**2.2 Label elements**

|              |   |
|--------------|---|
| Product Name | According to Regulation (EC) No. 1272/2008 (CLP)<br>TSPO1 |
|--------------|---|

Hazard Pictogram(s)



GHS07

|                |         |
|----------------|---------|
| Signal Word(s) | Warning |
|----------------|---------|

|                     |   |
|---------------------|---|
| Hazard Statement(s) | H315: Causes skin irritation<br>H319: Causes serious eye irritation<br>H335: May cause respiratory irritation |
|---------------------|---|

|                            |   |
|----------------------------|---|
| Precautionary Statement(s) | P302 + P352: IF ON SKIN: Wash with plenty of water.<br>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P312: Call a POISON CENTER or doctor if you feel unwell.<br>P337 + P313: If eye irritation persists: Get medical advice/attention. |
|----------------------------|---|

**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.      | %W/W   | Hazard Statement(s)  |
|---|--------------|--------|--|
| Diphenyl[4-(triphenylsilyl)phenyl]phosphine oxide | 1286708-86-8 | <= 100 | Skin Irrit. 2 H315<br>Eye Irrit. 2A H319<br>STOT SE 3 H335 |

**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 vapours/mist/dust/aerosols. Use only in a well-ventilated area. Wear protective clothing as per section 8. Wash hands thoroughly after handling.

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

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

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.

Occupational Exposure Limits

| SUBSTANCE. | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m <sup>3</sup> ) | STEL (ppm) | STEL (mg/m <sup>3</sup> ) | Note |
|------------|---------|---------------------|------------------------------------|------------|---------------------------|------|
|            |         |                     |                                    |            |                           |      |

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. 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/Crystals.<br>Colour: White.                        |
| 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.<br>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    | 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. |
| <b>11.2 Other information</b>  | Not known.         |

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

|                                    |                    |
|------------------------------------|--------------------|
| 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**

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, reclaimor 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) 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

Other Not known.

**National regulations**

Other Not known.

**15.2 Chemical Safety Assessment**

A REACH chemical safety assessment has not been carried out.

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**SECTION 16: OTHER INFORMATION**

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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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