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

1.1 Product identifier
Product Name: TIPS-pentacene

Synonyms:
- Chemical Name: 6,13-Bis(triisopropylsilylethynyl)pentacene
- Chemical Formula: C_{44}H_{54}Si_{2}

CAS No.: 373596-08-8
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
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
- Skin Irrit. 2: Causes skin irritation
- Eye Irrit. 2A: Causes serious eye irritation
- STOT SE 3: May cause respiratory irritation

2.2 Label elements
According to Regulation (EC) No. 1272/2008 (CLP)
Product Name: TIPS-pentacene
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
Precautionary Statement(s):
- P261: Avoid breathing dust.
- P280: Wear protective gloves/protective clothing/eye protection
- P302+P352: IF ON SKIN: Wash with plenty of water.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P304+P340+P312: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.

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>%W/W</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,13-Bis(triisopropylsilylethynyl)pentacene</td>
<td>373596-08-8</td>
<td>100</td>
<td>Skin Irrit. 2 H315, Eye Irrit. 2A H319, 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 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

Storage temperature
Ambient.

Storage life
Light Sensitive. Store in the dark.

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

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>LTEL (8 hr TWA ppm)</th>
<th>LTEL (8 hr TWA mg/m³)</th>
<th>STEL (ppm)</th>
<th>STEL (mg/m³)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,13-Bis[(trisopropylsilyl)ethynyl]pentacene</td>
<td>373596-08-8</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Region | Source | United Kingdom | UK Workplace Exposure Limits EH40/2005 (Third edition, published 2018)
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>EU Occupational Exposure Limits</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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

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**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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Solid powder/crystals</td>
</tr>
<tr>
<td>Colour</td>
<td>Dark Purple</td>
</tr>
<tr>
<td>Odour</td>
<td>Not known.</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>Not known.</td>
</tr>
<tr>
<td>pH</td>
<td>Not known.</td>
</tr>
<tr>
<td>Melting point/freezing point</td>
<td>276 °C (lit.)</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>Not known.</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Not known.</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not known.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not known.</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>Not known.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Not known.</td>
</tr>
<tr>
<td>Vapour density</td>
<td>Not known.</td>
</tr>
<tr>
<td>Density (g/ml)</td>
<td>Not known.</td>
</tr>
<tr>
<td>Relative density</td>
<td>Not known.</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td>Solubility (Water): N/A</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not known.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>Not known.</td>
</tr>
<tr>
<td>Decomposition Temperature (°C)</td>
<td>Not known.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not known.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not known.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not known.</td>
</tr>
</tbody>
</table>

#### 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
Acute toxicity - Skin Contact
Acute toxicity - Inhalation
Skin corrosion/irritation
Serious eye damage/irritation
Skin sensitization data
Respiratory sensitization data
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Lactation
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

11.2 Other information
Not known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity
Toxicity - Aquatic invertebrates
Toxicity - Fish
Toxicity - Algae
Toxicity - Sediment Compartment
Toxicity - Terrestrial Compartment

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
REACH: ANNEX XIV list of substances subject to authorisation
REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles
Community Rolling Action Plan (CoRAP)
Regulation (EC) N° 1005/2009 on substances that deplete the ozone layer
National regulations
Other

Not listed
Not listed
Not listed
Not listed
Not listed
Not listed
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 Road
- STEL: Short term exposure limit
- STOT: Specific Target Organ Toxicity
- UN: United Nations
- vPvB: very Persistent and very Bioaccumulative

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