MATERIAL SAFETY DATA SHEET
6,13-
BIS((triisopropylsilyl)ethynyl)pentacene
(TIPS Pentacene)

Product Details
Product Code: TIPS Pentacene
Name: 6,13-BIS((triisopropylsilyl)ethynyl)pentacene
Supplied by: Ossila Limited, Kroto Innovation Centre
Broad Lane, Sheffield
S3 7HQ, UK
Contact: 0114 2132770
info@ossila.com

Main Hazards
Not classified as dangerous according to EC Directive.

This material has not been fully tested. Some data is therefore based upon the information available from other similar conjugated polymers. As precautionary measure consider to be an irritant to eyes, skin and respiratory system.

Ingredients
Chemical characterization
Dark Blue Solid

Classification of substances according to 67/48/EEC

<table>
<thead>
<tr>
<th>Dangerous substances</th>
<th>Content %</th>
<th>CAS No</th>
<th>EC No</th>
<th>Indication of Danger</th>
<th>Risk Phrases</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,13-BIS((triisopropylsilyl)ethynyl)pentacene</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
<td>Xi</td>
<td>R36/37/38</td>
</tr>
</tbody>
</table>

Classification of substances according to CLP, 1272/2008/EC

<table>
<thead>
<tr>
<th>Hazardous Substances</th>
<th>Content %</th>
<th>CAS No</th>
<th>EC No</th>
<th>Hazard class(es/Category Code(s))</th>
<th>Hazard Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>6,13-BIS((triisopropylsilyl)ethynyl)pentacene</td>
<td>No data</td>
<td>No data</td>
<td>No data</td>
<td>Skin irritant 2, Eye irritant 2, STOT SE 3</td>
<td>H315, H319, H335</td>
</tr>
</tbody>
</table>

Handling and storage
Handling
Use suitable local exhaust ventilation as necessary. Do not inhale substance. Prevent skin contact. Wash hands thoroughly after working with material. Contaminated clothing should be removed and washed before reuse.

Storage
Store in a dry place separated from strong oxidants and acids.

First Aid measures

After Eye Contact
If in eyes: rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing. Seek medical advice.

After Inhalation
If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. Seek medical advice if you feel unwell.

After Skin Contact
If on skin, wash with soap and water. If skin irritation occurs, seek medical advice.

After Ingestion
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Seek medical advice.

Fire Fighting
Suitable extinguishing media - Use water spray, foam, dry chemical powder, or carbon dioxide
Unsuitable extinguishing media - No data available

Wear self-contained breathing apparatus for fire-fighting if necessary

Special risks
May generate toxic fumes under fire conditions.

Accidental release measures
Personal precautions, protective equipment and emergency procedures -
Use personal protective equipment. Avoid breathing dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions - Do not allow to enter sewerage system.

Methods and material for containment and cleaning up -
Sweep spilled substance into containers for disposal; if appropriate, moisten first to prevent dusting (use respiratory protection: P2 filter respirator for harmful particles).

Physical and chemical properties
Appearance Purple Solid
Solubility in water Negligible
Solubility in other solvents Toluene, Dichloromethane, Tetrahydrofuran
Explosive properties Product is not explosive
Oxidising properties Product is not a strong oxidiser

Stability and reactivity
No data available

**Incompatible materials** - Avoid strong acids and oxidisers

**Exposure controls/personal protection**

**Appropriate engineering controls**
Facilities storing or utilising this material should be equipped with eyewash facilities. Ensure adequate ventilation to keep airborne concentration as low as possible. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday.

**Individual protection measures, such as personal protective equipment.**

a) **Eye/face protection**
Wear appropriate safety glasses with side-shields (EN166).

b) **Skin protection**
Wear gloves conforming to EN374.

c) **Respiratory protection**
In case of insufficient ventilation wear suitable respiratory equipment.

**Toxicological information**

**Acute toxicity** - Not determined
**Skin corrosion/irritation** - Skin irritant category 2
**Serious eye damage/irritation** - Eye irritant category 2
**Respiratory or skin sensitization** - Not determined
**Germ cell mutagenicity** - Not determined
**Carcinogenicity** - No component of this product, present at levels greater than or equal to 0.1% is identified as a probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity** - Not determined
**STOT-single exposure** - STOT SE category 3
**STOT-repeated exposure** - Not determined
**Aspiration hazard** - Not determined

**Further data**
This substance has not yet been fully tested.
No relevant studies identified.

**Ecological information**

**Toxicity** - Not determined
**Persistence and degradability** - Not determined
**Bio accumulative potential** - Not determined
**Mobility in soil** - Not determined
**Results of PBT and vPvB assessment** - Not determined
**Other adverse effects** - Not determined

**Disposal**
Chemical residues, including contaminated containers, are generally as hazardous waste, and as such are covered by regulations which vary according to location. Contact your local waste disposal authority for advice, or pass to a licensed chemical disposal company. Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

**Transport**
Not classified as dangerous goods.

**Regulatory information**
**Labelling according to EC directives**

**Symbols:**
Risk phrase: R36/37/38
Safety phrases: S7, S22, S36, S45
Contains: 6,13-BIS((triisopropylsilyl)ethynyl)pentacene

**Pictograms:**
Signal word: Warning
Hazard Statements: H315: cause skin irritation
H319: Cause serious eye irritation
H335: May cause respiratory irritation

Precautionary statements: P261, P280, pP332 + P313, P337 + P313, P312, P403 +P233, P501

Precautionary phrase: Avoid breathing dust. Wear protective gloves/clothing and eye protection. If skin irritation occurs, seek medical advice. If eye irritation persists: seek medical advice. Call a POISON CENTRE or doctor/physician if you feel unwell. Store in a well ventilated place. Keep container tightly closed. Dispose of contents/container to an approved waste disposal plant.

**Other information**
The above information is believed to be correct but does not claim to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.