

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 BDT-Th(TPS)-Sn  
 Synonyms -  
 Chemical Name 2,6-bis(trimethylstannyl)-4,8-bis(5-(tripropylsilyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene  
 Chemical Formula C42H66S4Si2Sn2  
 CAS No. 2035466-88-5  
 EC No. Not Applicable  
 Index No. 050-005-00-7  
 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, Research and development use *only*

**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

**1.4 Emergency telephone number**

Emergency Phone # +44 (0) 20 3885 0382 (CHEMTREC)

Other Regions	Emergency Phone Number (CHEMTREC)
Europe, Middle East, Africa	+44 20 3885 0382
North America	+1 703 527 3887
Central America	+52 55 8526 4930
South America	+55 11 4349 1359
Asia, India, and Oceania	+65 3163 8374

**SECTION 2: HAZARDS IDENTIFICATION**
**2.1 Classification of the substance or mixture**

Regulation (EC) No. 1272/2008 (CLP) Acute Tox. 2: Fatal if swallowed.  
 Acute Tox. 1: Fatal in contact with skin.  
 Acute Tox. 2: Fatal if inhaled  
 Aquatic Acute 1: Very toxic to aquatic life  
 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)  
 BDT-Th(TPS)-Sn

Hazard Pictogram(s)



GHS06

GHS09

Signal Word(s)

Danger

Hazard Statement(s)

H300+H310+H330: Fatal if swallowed, in contact with skin or if inhaled  
 H400: Very toxic to aquatic life  
 H410: Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)

P262: Do not get in eyes, on skin, or on clothing.  
 P280: Wear protective gloves/protective clothing/eye protection.  
 P273: Avoid release to the environment.  
 P301 + P310 + P330: IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth.  
 P302 + P352 + P310: IF ON SKIN: Wash with plenty of water. Immediately call a POISON CENTER/ doctor.

P304 + P340 + P310: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor

**2.3 Other hazards**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**2.4 Additional Information**

Not applicable.

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

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**3.1 Substances**

Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
2,6-bis(trimethylstannyl)-4,8-bis(5-(tripropylsilyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene	2035466-88-5	Not Applicable	≤100	Acute Tox. 2 H300 Acute Tox. 1 H310 Acute Tox. 2 H330 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

**3.2 Mixtures**

Not applicable.

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**SECTION 4: FIRST AID MEASURES**

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**4.1 Description of first aid measures**

General Advice	First aiders should ensure they have taken adequate steps to protect themselves from exposure (see Section 8 for recommended personal protection equipment) Show this safety data sheet to the doctor in attendance.
Inhalation	Remove person to fresh air and keep comfortable for breathing. If not breathing give artificial respiration. Call a POISON CENTER or doctor/physician.
Skin Contact	Wash with soap and flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a POISON CENTER or doctor/physician.
Eye Contact	Flush with copious amounts of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/physician.
Ingestion	Immediately call a POISON CENTER or doctor/ physician. Rinse mouth.

**4.2 Most important symptoms and effects, both acute and delayed**

Most important symptoms and effects, both acute and delayed, are included on labelling (Section 2.2) and in Section 11.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

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**SECTION 5: FIREFIGHTING MEASURES**

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**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**

Carbon oxides  
Sulfur oxides  
Silicon oxides  
Tin oxides

**5.3 Advice for firefighters**

Fire fighters should wear complete protective clothing including self-contained breathing apparatus.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**6.1 Personal precautions, protective equipment and emergency procedures**

Follow safe handling advice and personal protective equipment recommendations (as per section 8). Provide adequate ventilation.

**6.2 Environmental precautions**

Avoid release to the environment.

**6.3 Methods and material for containment and cleaning up**

Sweep up spilled substance - 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**

Advice on safe handling Avoid inhalation, ingestion, and contact with skin and eyes. Use only in a well-ventilated area. Wear protective clothing as per section 8.  
Hygiene measures Keep away from food and drink. Wash hands after handling, before breaks, and at the end of workday.

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

Storage temperature Store in a well-ventilated place. Keep container tightly closed. Store locked up. Ambient.  
Storage life Product is air sensitive. Store under inert gas.  
Incompatible materials None known.

**7.3 Specific end use(s)**

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1 Control parameters**

8.1.1 Occupational Exposure Limits

UK – EH40 Workplace Exposure Limits (WEL).

Occupational Exposure Limits						
SUBSTANCE.	CAS No.	LTEL (8 hr TWA ppm)	LTEL (8 hr TWA mg/m³)	STEL (ppm)	STEL (mg/m³)	Note
2,6-bis(trimethylstannyl)-4,8-bis(5-(tripropylsilyl)thiophen-2-yl)benzo[1,2-b:4,5-b']dithiophene (Tin compounds, organic)	2035466-88-5		0.1 (Sn)		0.2 (Sn)	

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 and/or exhaust. 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 tested and approved under appropriate government standards such as EN166 (EU).  
Hand protection Handle with gloves. Gloves must be inspected prior to use and proper glove removal techniques should be used. The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.  
Body protection Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place.  
Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls.  
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**

Physical State Solid: Powder/Crystals.  
Colour White.  
Odour Not known.  
Odour threshold Not known.  
Melting point/freezing point Not known.  
Initial boiling point and boiling range Not known.  
Flammability Not known.  
Lower and upper explosion limit Not known.  
Flash Point Not known.  
Auto-ignition temperature (°C) Not known.  
Decomposition temperature (°C) Not known.  
pH Not known.  
Kinematic viscosity Not known.  
Solubility(ies) Solubility (Water): Not known.  
Solubility (Other): Not known.  
Partition coefficient: n-octanol/water (log value) Not known.  
Vapour pressure Not known.  
Density Not known.  
Relative density Not known.

Relative vapour density Not known.  
 Particle characteristics Not known.

**9.2 Other information** None.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity** None anticipated.

**10.2 Chemical Stability** Stable under recommended storage 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** In the event of fire: see Section 5

**SECTION 11: TOXICOLOGICAL INFORMATION**
**11.1 Information on toxicological effects**

Acute toxicity - Ingestion Fatal if swallowed. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).

Acute toxicity - Skin Contact Fatal in contact with skin. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).

Acute toxicity - Inhalation Fatal if inhaled Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).

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.

**11.2 Information on other hazards**

11.2.1 Endocrine disrupting properties None known.

11.2.2. Information on other hazards None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity** Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Classified according to Regulation (EU) 1272/2008, Annex VI (Table 3.1/3.2).

Toxicity - Aquatic invertebrates Not known.

Toxicity - Fish Not known.

Toxicity - Algae Not known.

Toxicity - Sediment Compartment Not known.

Toxicity - Terrestrial Compartment Not known.

**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** This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

**12.6 Endocrine disrupting properties** Not known.

**12.7 Other adverse effects** Not known.

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**SECTION 13: DISPOSAL CONSIDERATIONS**


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**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.

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**SECTION 14: TRANSPORT INFORMATION**


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**14.1 UN number**

UN No. 3146

**14.2 UN proper shipping name**

UN proper shipping name ORGANOTIN 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 I

**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 Maritime transport in bulk according to IMO instruments**

Not known.

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**SECTION 15: REGULATORY INFORMATION**


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**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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