

Revision Date: 25/03/2024 Revision #: 1

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

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

1.1 Product identifier

Product Name HTL Solar 4 PEDOT Complex

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
 \$4 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) Flam. Liq. 3: Flammable liquid and vapour

Skin Irrit. 2: Causes skin irritation

Eye Dam. 1: Causes serious eye damage STOT SE 3: May cause respiratory irritation STOT SE 3: May cause drowsiness or dizziness

STOT RE 2: May cause damage to organs through prolonged or repeated exposure

2.2 Label elements

According to Regulation (EC) No. 1272/2008 (CLP)

Product Name HTL Solar 4 PEDOT Complex

Hazard Pictogram(s)



Signal Word(s) Danger

Hazard Statement(s)

H226: Flammable liquid and vapour

H315: Causes skin irritation

H318: Causes serious eye damage H335: May cause respiratory irritation H336: May cause drowsiness or dizziness.

H373: May cause damage to organs (Lungs) through prolonged or repeated

exposure

Precautionary Statement(s) P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immedi ately all contaminated

clothing. Rinse skin with water.

P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel unwell. P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER/ doctor.

www.ossila.com Page: 1 - 6

Ossila

Revision Date: 25/03/2024 Revision #: 1

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

This product is a mixture.

3.2 Mixtures

Hazardous ingredient(s)	CAS No.	EC No.	%W/W	Hazard Statement(s)
Anisole	100-66-3	202-876-1	>88.8 - <95.7	Flam. Liq. 3 H226 STOT SE 3 H336
Benzoic acid Index number: 607-705-00-8	65-85-0	200-618-2	≥1 - <5	STOT RE 1 (Lungs) H372 Skin Irrit. 2 H315 Eye Dam. 1 H318
Butylamine Index number: 612-005-00-0	109-73-9	203-699-2	≥0.1 - <3	Flam. Liq. 2 H225 Acute Tox. 4 H302 Acute Tox. 4 H312 Acute Tox. 4 H332 Skin Corr. 1A H314

SECTION 4: FIRST AID MEASURES

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. Get medical

advice/attention if you feel unwell.

Skin Contact Rinse skin with water. If skin irritation occurs, get medical advice/attention. Get

medical advice/attention if you feel unwell.

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. Do NOT

induce vomiting.

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.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media
Unsuitable extinguishing media
As appropriate for surrounding fire.
As appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Carbon oxides
Sulfur oxides

Nitrogen oxides (NOx)

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

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

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

See Also Section 8, 13.

www.ossila.com Page: 2 - 6



Revision Date: 25/03/2024 Revision #: 1

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

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Reseal containers that have been opened to prevent evaporation of solvent and potential formation of a non re-dispersible solid. Keep upright to prevent leakage.

Keep away from heat and sources of ignition.

Storage temperature

Stable for 9 months from date of production in sealed original containers. Product is Storage life

sensitive to frost and must not be stored at temperatures below 0 °C.

Incompatible materials

7.3 Specific end use(s)

None known.

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

No Occupational Exposure Limit assigned.

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

Eve Protection

Body protection

Wear eye protection with side protection tested and approved under appropriate

government standards such as EN166 (EU).

Handle with gloves. Gloves must be inspected prior to use and proper glove removal Hand protection

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. Choose body protection in relation to its type, to the concentration and amount of

dangerous substances, and to the specific work-place.

Where risk assessment shows air-purifying respirators are appropriate use a full-Respiratory protection

face respirator with multi-purpose combination (US) or type ABEK (EN 14387)

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 Liquid. Dark Blue Colour Odour Not known. Odour threshold Not known. Melting point/freezing point Not known 154 °C Initial boiling point and boiling range Flammability Not known. Lower and upper explosion limit Not known. Flash Point 41 °C(1,013 hPa). Auto-ignition temperature (°C) Not known. Decomposition temperature (°C) Not known.

5 - 7 (21 °C). Hq Kinematic viscosity Not known.

Solubility(ies) Solubility (Water): Not known. Solubility (Other): Not known.

Not known. Partition coefficient: n-octanol/water (log

value)

Vapour pressure Not known. Not known. Density Relative density Not known Relative vapour density Not known. Particle characteristics Not known.

9.2 Other information

None.

www.ossila.com Page: 3 - 6

Revision Date: 25/03/2024 Revision #: 1

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 Acute toxicity - Skin Contact > 2,000 mg/kg (Method: calculation method)

Acute toxicity estimate: > 20 mg/l

Exposure time: 4 h

Test atmosphere: vapour (Method: Calculation method)

> 2,000 mg/kg (Method: calculation method) Acute toxicity - Inhalation

Skin corrosion/irritation Causes skin irritation. Serious eye damage/irritation Cause serious eye damage.

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 drowsiness or dizziness.

STOT - repeated exposure May cause damage to organs (Lungs) through prolonged or repeated exposure if

inhaled.

Not classified. Aspiration hazard

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

Not classified.

Toxicity - Aquatic invertebrates Benzoic acid - EC50 (Daphnia magna (Water flea)): > 100 mg/l.

Butylamine - EC50 (Ceriodaphnia dubia (water flea)): 8.2 mg/l.

Benzoic acid - LC50 (Lepomis macrochirus (Bluegill sunfish)): 44.6 mg/l. Toxicity - Fish Butylamine – LC50 (Lepomis macrochirus (Bluegill sunfish)): 32 mg/l.

Toxicity - Algae

Benzoic acid - ErC50 (Pseudokirchneriella subcapitata (green algae)): > 33.1 mg/l. Butylamine – EC50 (Desmodesmus subspicatus (green algae)): 17 mg/l

Not known.

Toxicity - Sediment Compartment Toxicity - Terrestrial Compartment Not known.

12.2 Persistence and Degradation

Benzoic acid - rapidly degradable. Biodegradation: 89.5 % Exposure time: 35 d. Butylamine - readily biodegradable. Biodegradation: 85 % Exposure time: 14 d

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.

www.ossila.com Page: 4 - 6

Revision Date: 25/03/2024 Revision #: 1

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

14.1 UN number

UN No.

14.2 UN proper shipping name

UN proper shipping name Flammable liquid, n.o.s. (Anisole dispersion)

14.3 Transport hazard class(es)

ADR/RID **IMDG** 3 3 IATA 14.4 Packing group Ш Packing group

14.5 Environmental hazards

Classified as a Marine Pollutant (Anisole). Environmental hazards

14.6 Special precautions for user

Special precautions for user Not known.

14.7 Maritime transport in bulk according to IMO instruments

Not known.

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

Not listed

Not listed

Not listed

subject to authorisation

REACH: ANNEX XIV list of substances

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) Not listed Regulation (EC) N° 850/2004 of the Not listed

European Parliament and of the Council

on persistent organic pollutants

Regulation (EC) N° 1005/2009 on Not listed

substances that deplete the ozone layer

Regulation (EU) N° 649/2012 of the European Parliament and of the Council

concerning the export and import of

hazardous chemicals

National regulations

Not known. Other

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

www.ossila.com Page: 5 - 6





Revision Date: 25/03/2024 Revision #: 1

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

Disclaimers

Information contained in this publication or as otherwise supplied to Users is believed to be accurate and is given in good faith, but it is for the Users to satisfy themselves of the suitability of the product for their own particular purpose. Ossila Limited gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition (statutory or otherwise) is excluded except to the extent that exclusion is prevented by law. Ossila Limited accepts no liability for loss or damage (other than that arising from death or personal injury caused by defective product, if proved), resulting from reliance on this information. Freedom under Patents, Copyright and Designs cannot be assumed.

www.ossila.com Page: 6 - 6