

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

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

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**1.1 Product identifier**

|                        |   |
|------------------------|---|
| Product Name           | PFN-Br  |
| Synonyms               | PFN-bromide, PFNBr  |
| Chemical Name          | Poly(9,9-bis(3'-(N,N-dimethyl)-N-ethylammonium-propyl-2,7-fluorene)-alt-2,7-(9,9-dioctylfluorene))dibromide |
| Chemical Formula       | (C <sub>56</sub> H <sub>80</sub> N <sub>2</sub> Br <sub>2</sub> ) <sub>n</sub>                              |
| CAS No.                | 889672-99-5   |
| 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                                       |

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**SECTION 2: HAZARDS IDENTIFICATION**

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**2.1 Classification of the substance or mixture**

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

**2.2 Label elements**

The product does not need to be labelled in accordance with EC directives or respective national laws.

**2.3 Other hazards**

None known.

**2.4 Additional Information**

Not applicable.

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

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**3.1 Substances**

No components need to be disclosed according to the applicable regulations.

**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**

|              |  |
|--------------|--|
| 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.

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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**

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.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

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**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 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**

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

Storage temperature

Ambient.

Storage life

Product is light sensitive. Store in the dark. Store in a refrigerator or under inert gas.

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.

**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

Normally no personal respiratory protection is necessary.



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/fibres<br>Colour: Light yellow                      |
| Odour  | Not known.   |
| Odour threshold                              | Not known.   |
| pH   | Not known.   |
| Melting point/freezing point                 | >200 °C  |
| 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. |
| <b>9.2 Other information</b>   | None.      |

**SECTION 10: STABILITY AND REACTIVITY**

|  |  |
|--|--|
| <b>10.1 Reactivity</b>                         | None anticipated.                          |
| <b>10.2 Chemical Stability</b>                 | Stable under normal conditions.            |
| <b>10.3 Possibility of hazardous reactions</b> | Not known.                                 |
| <b>10.4 Conditions to avoid</b>                | Not known.                                 |
| <b>10.5 Incompatible materials</b>             | Not known.                                 |
| <b>10.6 Hazardous decomposition products</b>   | No hazardous decomposition products known. |

**SECTION 11: TOXICOLOGICAL INFORMATION**

|  |                 |
|--|-----------------|
| <b>11.1 Information on toxicological effects</b> |                 |
| Acute toxicity - Ingestion                       | Not classified. |
| Acute toxicity - Skin Contact                    | Not classified. |
| Acute toxicity - Inhalation                      | Not classified. |
| Skin corrosion/irritation                        | Not classified. |
| Serious eye damage/irritation                    | Not classified. |
| 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                           | Not classified. |
| STOT - repeated exposure                         | Not classified. |
| Aspiration hazard                                | Not classified. |
| <b>11.2 Other information</b>                    | Not known.      |

**SECTION 12: ECOLOGICAL INFORMATION**

|  |                 |
|--|-----------------|
| <b>12.1 Toxicity</b>                           |                 |
| Toxicity - Aquatic invertebrates               | Not known.      |
| Toxicity - Fish                                | Not known.      |
| Toxicity - Algae                               | Not known.      |
| Toxicity - Sediment Compartment                | Not classified. |
| Toxicity - Terrestrial Compartment             | Not classified. |
| <b>12.2 Persistence and Degradation</b>        | Not known.      |
| <b>12.3 Bioaccumulative potential</b>          | Not known.      |
| <b>12.4 Mobility in soil</b>                   | Not known.      |
| <b>12.5 Results of PBT and vPvB assessment</b> | Not known.      |
| <b>12.6 Other adverse effects</b>              | Not known.      |

**SECTION 13: DISPOSAL CONSIDERATIONS**

|                                     |   |
|-------------------------------------|---|
| <b>13.1 Waste treatment methods</b> | 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. |
| <b>13.2 Additional Information</b>  | Disposal should be in accordance with local, state or national legislation.   |

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**SECTION 14: TRANSPORT INFORMATION**


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| IATA/IMO/RID/ADR | Not classified as hazardous for transport. |
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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) | Not listed |
|---------------------------------------|------------|

|  |            |
|--|------------|
| Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic pollutants | Not listed |
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|   |            |
|---|------------|
| 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 |
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|       |            |
|-------|------------|
| Other | Not known. |
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**National regulations**

|       |            |
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| Other | Not known. |
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**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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