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 3,3’-(2,7-Dibromo-9H-fluorene-9,9-diyl)bis(N,N-dimethyl-1-propanamine)
Synonyms 3,3’-(2,7-Dibromo-9H-fluorene-9,9-diyl)bis(N,N-dimethyl-1-propanamine)
   9H-Fluorene-9,9-dipropanamine, 2,7-dibromo-N,N,N’-tetramethyl-
   2,7-dibromo-9,9-bis[3,3’-(N,N-dimethylamino)propyl]fluorene
Chemical Name 3,3’-(2,7-Dibromo-9H-fluorene-9,9-diyl)bis(N,N-dimethyl-1-propanamine)
Chemical Formula C23H30Br2N2
Product code B191
CAS No. 673474-73-2
EC No. 808-078-5
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
   Eye Irrit. 2: Causes serious eye irritation.

2.2 Label elements
According to Regulation (EC) No. 1272/2008 (CLP)
Product Name 3,3’-(2,7-Dibromo-9H-fluorene-9,9-diyl)bis(N,N-dimethyl-1-propanamine)
Hazard Pictogram(s) GHS07
Signal Word(s) Warning
Hazard Statement(s) H315: Causes skin irritation.
   H319: Causes eye irritation.
Precautionary Statement(s) 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.

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>EC No. / REACH Registration No.</th>
<th>%W/W</th>
<th>Hazard Statement(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,3’-(2,7-Dibromo-9H-fluorene-9,9-diyl)bis(N,N-dimethylpropan-1-amine)</td>
<td>673474-73-2</td>
<td>808-078-5</td>
<td>100</td>
<td>Skin Irrit. 2 H315, Eye Irrit. 2 H319</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 and air sensitive. Store in the dark. Store 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  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

Appearance  Solid

Colour: No data available.

Odour  Not known.

Odour threshold  Not known.

pH  Not known.

Melting point/freezing point  74-78°C (lit.)

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.

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.

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**: Not classified.
- **Acute toxicity - Skin Contact**: Not classified.
- **Acute toxicity - Inhalation**: Not classified.
- **Skin corrosion/irritation**: Causes skin irritation.
- **Serious eye damage/irritation**: Caused serious eye irritation.
- **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.

11.2 Other information

- **Not known.**

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

- **Toxicity - Aquatic invertebrates**: Not known.
- **Toxicity - Fish**: Not known.
- **Toxicity - Algae**: Not known.
- **Toxicity - Sediment Compartment**: Not classified.
- **Toxicity - Terrestrial Compartment**: Not classified.

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, reclamer 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: 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° 1005/2009 on substances that deplete the ozone layer
Not listed
Not listed
National regulations
Other
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 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.