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 9,9-Dioctyl-2,7-dibromofluorene
Synonyms 2,7-Dibromo-9,9-dioctyl-9H-fluorene, 2,7-Dibromo-9,9-dioctylfluorene
Chemical Name 2,7-Dibromo-9,9-di-n-octylfluorene
Chemical Formula C29H40Br2
Product code B331
CAS No. 198964-46-4
EC No. 679-876-7
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

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 9,9-Dioctyl-2,7-dibromofluorene
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>
</table>
| 2,7-Dibromo-9,9-di-n-octylfluorene | 198964-46-4 | 679-876-7 | 100 | Skin Irrit. 2 H315
| Eye Irrit. 2 H319 |

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 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  Stable under normal conditions.

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 powder/crystals
Colour: White.
Odour  Not known.
Odour threshold  Not known.
pH  Not known.
Melting point/freezing point  59-63°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.
| 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           |            |
| 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, reclaimer 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 | Not listed |
| 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 |
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
LTLE : 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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