

# 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  | Cz-DPS  |  |
| Synonyms  | p-CzDPS, Bis[4-(9H-carbazole-9-yl)phenyl]sulfone, Bis[4-(9-H-<br>carbazole)phenyl]Sulfone |  |
| Chemical Name   | 9,9'-(Sulfonylbis(4,1-phenylene))bis(9H-carbazole)  |  |
| Chemical Formula  | C36H24N2O2S   |  |
| CAS No.   | 733038-89-6   |  |
| EC No.  | Not available.  |  |
| Index 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, 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<br>Regulation (EC) No. 1272/2008 (CLP) | <b>mixture</b><br>Acute Tox. 4: Harmful if swallowed<br>Skin Irrit. 2: Causes skin irritation<br>Eye Irrit. 2: Causes serious eye irritation<br>STOT SE 3: May cause respiratory irritation   |
|---|---|
| 2.2 Label elements  | According to Regulation (EC) No. 1272/2008 (CLP)  |
| Product Name  | Cz-DPS  |
| Hazard Pictogram(s)   | GHS07   |
| Signal Word(s)  | Warning   |
| Hazard Statement(s)   | H302: Harmful if swallowed<br>H315: Causes skin irritation<br>H319: Causes serious eye irritation<br>H335: May cause respiratory irritation   |
| Precautionary Statement(s)  | <ul> <li>P301 + P312 + P330: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell. Rinse mouth.</li> <li>P302 + P352: IF ON SKIN: Wash with plenty of water.</li> <li>P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing.</li> <li>P312: Call a POISON CENTER or doctor if you feel unwell.</li> <li>P337 + P313: If eye irritation persists: Get medical advice/attention.</li> </ul> |



### 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                         |                    |                          | <b>I</b>          |   |
|--|--------------------|--------------------------|-------------------|---|
| Hazardous ingredient(s)                | CAS No.            | EC No.                   | %W/W              | Hazard Statement(s)                           |
| 9,9'-(Sulfonylbis(4,1-                 | 733038-89-6        | Not available.           | <= 100            | Acute Tox. 4 H302<br>Skin Irrit. 2 H315       |
| phenylene))bis(9H-carbazole)           |                    |                          |                   | Eye Irrit. 2 H319                             |
|  |                    |                          |                   | STOT SE 3 H335                                |
|  |                    |                          |                   |   |
| <b>3.2 Mixtures</b><br>Not applicable. |                    |                          |                   |   |
| SECTION 4: FIRST AID MEASU             | JRES               |                          |                   |   |
| 4.1 Description of first aid me        | asures             |                          |                   |   |
| General Advice                         |                    |                          |                   | lequate steps to protect themselves           |
|  |                    |                          |                   | ed personal protection equipment)             |
| Inhalation                             |                    | is safety data sheet to  |                   | ttendance.<br>able for breathing. Get medical |
|  |                    | ttention if you feel un  |                   | asie for breathing. Oet medical               |
| Skin Contact                           |                    |                          |                   | get medical advice/attention.                 |
| Eye Contact                            | Rinse ca           | autiously with water fo  | r several minute  | es. Remove contact lenses, if present         |
|  |                    | y to do. Continue rinsi  |                   |   |
| Ingestion                              |                    |                          | et medical advi   | ce/attention if you feel unwell.              |
| 4.2 Most important symptoms            |                    |                          | deffects both a   | cute and delayed, are included on             |
|  | labelling          | (Section 2.2) and in S   | Section 11.       | sate and delayed, are molded off              |
| 4.3 Indication of any immediat         | te medical attenti | on and special treat     | ment needed       |   |
| •                                      | Treat sy           | mptomatically.           |                   |   |
| SECTION 5: FIREFIGHTING ME             | ASURES             |                          |                   |   |
| 5.1 Extinguishing media                |                    |                          |                   |   |
| Suitable Extinguishing media           | As appr            | opriate for surrounding  | g fire.           |   |
| Unsuitable extinguishing media         |                    | opriate for surrounding  | g fire.           |   |
| 5.2 Special hazards arising fro        |                    |                          |                   |   |
|  | Carbon             |                          |                   |   |
|  | Sulfur oz          | i oxides (NOx)<br>vides  |                   |   |
| 5.3 Advice for firefighters            | Cultur 0           |                          |                   |   |
|  | Fire figh          | ters should wear com     | plete protective  | clothing including self-contained             |
|  | breathin           | g apparatus.             |                   |   |
| SECTION 6: ACCIDENTAL REL              |                    | .e                       |                   |   |
|  |                    |                          |                   |   |
| 6.1 Personal precautions, prot         |                    |                          |                   |   |
|  |                    |                          |                   | tective equipment recommendations             |
| 6.2 Environmental precaution           |                    | section 8). Provide ad   |                   | л.  |
| 5.2 Environmental precaution           |                    | lease to the environm    | ient.             |   |
| 6.3 Methods and material for o         | containment and    | cleaning up              |                   |   |
|  | Sweep ι            | up spilled substance -   | avoid making d    | ust. Use vacuum equipment for                 |
|  | collectin          | g spilt materials, whei  | re practicable. D | ispose of contents in accordance with         |
| 6 4 Deference to other easting         |                    | ate or national legislat | ion.              |   |
| 6.4 Reference to other section         |                    | o Section 8, 13.         |                   |   |
|  | See Als            |                          |                   |   |
| SECTION 7: HANDLING AND S              | TORAGE             |                          |                   |   |
| 7.1 Precautions for safe hand          | ling               |                          |                   |   |
| Advice on safe handling                |                    | halation, ingestion, ar  | nd contact with s | kin and eyes. Use only in a well-             |
| 5                                      |                    | d area. Wear protecti    |                   |   |
| Hygiene measures                       | •                  |                          | nk. Wash hands    | after handling, before breaks, and at         |
|  |                    | of workday.              |                   |   |
| 7.2 Conditions for safe storag         |                    |                          |                   |   |
| Storago tomporaturo                    |                    | a well-ventilated place  | e. Keep containe  | er tightly closed.                            |
| Storage temperature                    | 3-5 °C             |                          |                   |   |
|  |                    |                          |                   |   |



Incompatible materials

7.3 Specific end use(s)

Storage life

Stable under normal conditions. None known.

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

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| <b>8.1 Control parameters</b><br>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                                |  |
| 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-<br>face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a<br>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               | 224 °C                         |
| 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.                     |
| рН   | Not known.                     |
| Kinematic viscosity                        | Not known.                     |
| Solubility(ies)                            | Solubility (Water): Not known. |
|  | Solubility (Other): Not known. |
| Partition coefficient: n-octanol/water (lo | bg Not known.                  |
| value)                                     | -                              |
| 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 | 3 Possibility of hazardous reactions |  |  |
|      | -                                    | Not known.                                   |  |
| 10.4 | Conditions to avoid                  |  |  |
|      |                                      | Not known.                                   |  |
| 10.5 | Incompatible materials               |  |  |
|      |                                      | Not known.                                   |  |
| 10.6 | 0.6 Hazardous decomposition products |  |  |
|      |                                      | In the event of fire: see Section 5          |  |
|      |                                      |  |  |



# SECTION 11: TOXICOLOGICAL INFORMATION

| 11.1 Information on toxicological effec | ts                 |
|---|--------------------|
| Acute toxicity - Ingestion              | No data available. |
| Acute toxicity - Skin Contact           | No data available. |
| Acute toxicity - Inhalation             | No data available. |
| 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   |  |
|---|--|
|   | No data available.   |
| Toxicity - Aquatic invertebrates  | No data available.   |
| Toxicity - Fish   | No data available.   |
| Toxicity - Algae  | No data available.   |
| Toxicity - Sediment Compartment   | Not classified.  |
| Toxicity - Terrestrial Compartment<br><b>12.2 Persistence and Degradation</b> | Not classified.  |
| 12.2 Persistence and Degradation  | Not known.   |
| 12.3 Bioaccumulative potential  | Not known.   |
|   | Not known.   |
| 12.4 Mobility in soil   |  |
| -   | Not known.   |
| 12.5 Results of PBT and vPvB asse   |  |
|   | 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 properti  | es<br>Not known.   |
| 12.7 Other adverse effects  | NOT KHOWH.   |
|   | Not known.   |
| SECTION 13: DISPOSAL CONSIDER   | RATIONS  |
| 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   | Discussed about the factor and a second to be all states are attracted to detail the |
|   | Disposal should be in accordance with local, state or national legislation.          |
| SECTION 14: TRANSPORT INFORM  | IATION   |
| IATA/IMO/RID/ADR  | Not classified as hazardous for transport.   |
| SECTION 15: REGULATORY INFOR  | MATION   |
|   |  |
| 15.1 Safety, health and environmer  | ntal regulations/legislation specific for the substance or mixture                   |
| European Regulations - Authorisatio   |  |
| Candidate List of Substances of Very  | Not listed   |
| High Concern for Authorisation  |  |

Candidate List of Substances of Very High Concern for Authorisation REACH: ANNEX XIV list of substances subject to authorisation 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)<br>Regulation (EC) N° 850/2004 of the<br>European Parliament and of the Council<br>on persistent organic pollutants | Not listed<br>Not listed                                     |
|---|--|
| Regulation (EC) N° 1005/2009 on   | Not listed   |
| substances that deplete the ozone layer<br>Regulation (EU) N° 649/2012 of the   | Not listed   |
| European Parliament and of the Council  | NUL IISTEU   |
| concerning the export and import of   |  |
| hazardous chemicals   |  |
| National regulations  | Nethersum  |
| 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<br>Goods by Inland Waterways<br>ADR : European Agreement concerning the International Carriage of Dangerous<br>Goods by Road<br>CAS : Chemical Abstracts Service<br>CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of<br>substances and mixtures<br>DNEL : Derived No Effect Level<br>EC : European Community<br>EINECS : European Inventory of Existing Commercial Chemical Substances<br>IATA : International Air Transport Association<br>IBC : Internediate Bulk Container<br>ICAO : International Civil Aviation Organization<br>IMDG : International Maritime Dangerous Goods<br>LTEL : Long term exposure limit<br>PBT : Persistent, Bioaccumulative and Toxic<br>PNEC : Predicted No Effect Concentration<br>REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals<br>RID : Regulations concerning the International Carriage of Dangerous Goods by Rail<br>STEL : Short term exposure limit<br>STOT : Specific Target Organ Toxicity<br>UN : United Nations<br>vPvB : very Persistent and very Bioaccumulative |
|-------------|---|
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