|  |  |
| --- | --- |
| **Date of submission [dd/mm/yy]** |  |

**Section 1 – Product Identity**

|  |  |
| --- | --- |
| **Proper Shipping Name\*** |  |
| **Main Chemical Name** |  |
| **Main Trade Name**  |  |
| **Synonyms** |  |

\*This is the first name that should appear on the shipping documentation and will be reflected in the
 IBC Code

**Section 2 – Product Identification Numbers**

|  |  |
| --- | --- |
| **CAS Number** |  |
| **EHS Number** |  |
| **UN Number** |  |

**Section 3 – Product Chemical Details**

|  |  |
| --- | --- |
| **Chemical Formula:** |  |
| **Physical State During Transport:** (liquid, solution (with %) or molten) |  |
| **Chemical Structure:** |

**Section 4 – Composition**

|  |  |  |  |
| --- | --- | --- | --- |
| **Component name** | **%** | **Range** | **Type** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

**Section 5 – Physical Properties**

|  |  |  |  |
| --- | --- | --- | --- |
| **Property** | **Qual** | **Value or Range** | **References and Comments** |
| **Molecular Weight** |  |  |  |  |
| **Density @ 20ºC**  | **(kg/m3)** |  |  |  |
| **Flash Point (cc)** | **(°C)** |  |  |  |
| **Boiling Point** | **(°C)**  |  |  |  |
| **Melting Point/Pour Point** | **(°C)** |  |  |  |
| **Water solubility @ 20ºC**  | **(mg/l)** |  |  |  |
| **Viscosity @ 20ºC**  | **(mPa.s)** |  |  |  |
| **Vapour Pressure @ 20ºC** | **(Pa)** |  |  |  |
| **SVC @ 20ºC** | **(mg/l)** |  |  |  |

**Notes:**

1. If values are not available at 20ºC temperature, please provide the value and reference temperature.
2. SVC refers to saturated vapour concentration. This value is used to assess the inhalation hazard for products that may be toxic by inhalation, but may not produce vapours in sufficient concentrations to constitute an inhalation hazard.

**Section 6 – Relevant Chemical Properties**

|  |  |  |
| --- | --- | --- |
| **Water Reactivity (0 – 2)**  |  | 0 Any chemical which, in contact with water, would not undergo a reaction to justify a value of 1 or 2.1 Any chemical which, in contact with water, may generate heat or produce a non-toxic, non-flammable or non-corrosive gas.2 Any chemical which, in contact with water, may produce a toxic, flammable or corrosive gas or aerosol. |
|  |
| **Details/References** |  |
|  |  |  |
| **Does the product react with air to cause a potentially** **hazardous situation**? (**Y/N)** |  |
|  |  |  |
| **If so, provide details** |  |
|  |  |
| **Reference** |  |
|  |  |
| **Is an Inhibitor or Stabilizer needed to prevent a hazardous reaction? (Y/N)** |  |
|  |
| **If so, provide details** |   |
| **Reference** |   |
|  |  |
| **Is refrigeration needed to prevent a hazardous reaction? (Y/N)**  |  |
|  |  |
| **If so, provide details** |   |
|  |
| **Reference** |  |

**Section 7 – Mammalian Toxicity**

**7.1 Acute Toxicity**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Qual** | **Value or Range** | **Species** | **Reference/Comments** |
| **Oral ATE/LD50** | **(mg/kg)** |   |   |   |   |
| **Dermal ATE/LD50** | **(mg/kg)** |   |   |   |   |
| **Inhalation ATE/LC50** | **(mg/l/4h)** |   |   |   |   |

**7.2 Corrosivity and Irritation**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **Observation** | **Species** | **Reference/Comments** |
| **Skin Irritation/Corrosion\*** |  |  |  |
| **Eye Irritation** |  |  |  |
| \* If corrosive, exposure time (hrs) |  |

**Options**: not irritating, mildly irritating, irritating, severely irritating or corrosive

**7.3 Sensitization**

|  |  |  |
| --- | --- | --- |
|  | **Y/N** | **Reference/Comments** |
| **Respiratory Sensitizer (in humans)** |  |  |
| **Skin Sensitizer** |  |  |

**7.4 Other Specific Long-term Effects**

|  |  |  |
| --- | --- | --- |
|  | **Y/N** | **Reference/Comments** |
| **Carcinogenic** |  |  |
| **Mutagenic** |  |  |
| **Toxic to reproduction** |  |  |
| **Other long-term effects** |  |  |

**7.5 Relevant Mammalian Toxicity**

***Acute Mammalian Oral Toxicity Data Taken Into Account***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Effect** | **Qual** | **Value or Range** | **Units** | **Species** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***Acute Mammalian Dermal Toxicity Data Taken Into Account***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Effect** | **Qual** | **Value or Range** | **Units** | **Species** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***Acute Mammalian Inhalation Toxicity Data Taken Into Account***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Effect** | **Qual** | **Value or Range** | **Units** | **Species** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***Skin Irritation/Corrosion Data***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Qty****(mg)** | **Cover** | **Exp. Time****(hrs)** | **Species** | **Observation** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***Eye Irritation Data***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Qty****(mg)** | **Cover** | **Exp. Time****(hrs)** | **Species** | **Observation** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***Additional Notes on Mammalian Toxicity***

**Section 8 – Aquatic Toxicity, Bioaccumulation and Biodegradation**

***8.1 Acute Toxicity***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Units** | **Qual** | **Value or Range** | **Species** | **Reference** |
| **Fish LC50** | **mg/l/96h** |  |  |  |  |
| **Crustacea EC50** | **mg/l/48h** |  |  |  |  |
| **Algae IC50** | **mg/l/72h** |  |  |  |  |

***8.2 Chronic Toxicity***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **Units** | **Qual** | **Value or Range** | **Species** | **Reference** |
| **Fish LC50** | **mg/l/96h** |  |  |  |  |
| **Crustacea EC50** | **mg/l/48h** |  |  |  |  |
| **Algae IC50** | **mg/l/72h** |  |  |  |  |

***8.3 Biodegradation and Bioaccumulation***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Test** | **Units**(%) | **Qual** | **Value** | **Method** |
| **28d Biodegradation** |  |  |  |  |
| **BOD5** |  |  |  |  |
| **COD** |  |  |  |  |
| **BCF** |  |  |  |  |
| **Log Pow** |  |  |  |  |
| **Reference** |  |

***8.4 Acute Fish Toxicity Taken Into Account***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Effect** | **Qual** | **Value or Range** | **Units** | **Species** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***8.5 Acute Crustacea Toxicity Taken Into Account***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Effect** | **Qual** | **Value or range** | **Units** | **Species** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***8.6 Acute Algal Toxicity Taken Into Account***

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Effect** | **Qual** | **Value or Range** | **Units** | **Species** | **Reference** |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

***8.7 Bioaccumulation – BCF values***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Qual** | **Value or Range** | **Duration****(days)** | **Species** | **Reference** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

***8.8 Bioaccumulation – Log Pow Values***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Qual** | **Value or Range** | **Duration****(days)** | **Species** | **Reference** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

***8.9 Biodegradation Values***

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Qual** | **Value or Range** | **Duration****(days)** | **Species** | **Reference** |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

***8.10 Additional Aquatic Toxicity Notes***

***8.11 Additional Bioaccumulation Notes***

***8.12 Additional Biodegradation Notes***

**Section 9 – SUBMISSION INFORMATION**

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