

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

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| Product Name | NDI-N |
| Synonyms | NDIN, 2,7-Bis(3-(dimethylamino)propyl)benzo[1,2,3-cd]phenanthroline-1,3,6,8(2H,7H)-tetraone |
| Chemical Name | (N,N-dimethylamino)propyl naphthalene diimide |
| Chemical Formula | C ₂₄ H ₂₈ N ₄ O ₄ |
| CAS No. | 3436-54-2 |
| 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

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|------------------------|-----------------------------------------------------|
| 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

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

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

3.2 Mixtures

Not applicable.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

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| 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

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| 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

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/crystals

Colour: Bright yellow

Odour

Not known.

Odour threshold

Not known.

pH

Not known.

Melting point/freezing point

Not known.

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): Methanol, ethanol, trifluoroethanol

Partition coefficient: n-octanol/water

Not known.

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| 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

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| 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

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| 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 | 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. |
| 11.2 Other information | Not known. |

SECTION 12: ECOLOGICAL INFORMATION

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| 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

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| 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

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

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| Candidate List of Substances of Very High Concern for Authorisation | Not listed |
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| REACH: ANNEX XIV list of substances subject to authorisation | Not listed |
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| REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | Not listed |
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| Community Rolling Action Plan (CoRAP) | Not listed |
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| 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 |
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| 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.

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements:

LEGEND

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| Acronyms | <p>ADN : European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways</p> <p>ADR : European Agreement concerning the International Carriage of Dangerous Goods by Road</p> <p>CAS : Chemical Abstracts Service</p> <p>CLP : Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures</p> <p>DNEL : Derived No Effect Level</p> <p>EC : European Community</p> <p>EINECS : European Inventory of Existing Commercial Chemical Substances</p> <p>IATA : International Air Transport Association</p> <p>IBC : Intermediate Bulk Container</p> <p>ICAO : International Civil Aviation Organization</p> <p>IMDG : International Maritime Dangerous Goods</p> <p>LTEL : Long term exposure limit</p> <p>PBT : Persistent, Bioaccumulative and Toxic</p> <p>PNEC : Predicted No Effect Concentration</p> <p>REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals</p> <p>RID : Regulations concerning the International Carriage of Dangerous Goods by Rail</p> <p>STEL : Short term exposure limit</p> <p>STOT : Specific Target Organ Toxicity</p> <p>UN : United Nations</p> <p>vPvB : very Persistent and very Bioaccumulative</p> |
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