1 Identification

· Product identifier
  · Trade name: Diisononyl Phthalate
  · Part number: N-1480
  · CAS Number: 68515-48-0
  · EC number: 249-079-5

· Application of the substance / the mixture Laboratory chemicals

2 Hazard(s) identification

· Classification of the substance or mixture
  
  GHS08 Health hazard

  Carc. 2  H351  Suspected of causing cancer.
  Repr. 1A  H360  May damage fertility or the unborn child.

· Label elements
  
  · GHS label elements
    The substance is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms

  GHS08

· Signal word Danger

· Hazard-determining components of labeling:
  diisononyl phthalate

· Hazard statements
  
  Suspected of causing cancer.
  May damage fertility or the unborn child.

· Precautionary statements
  
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Wear protective gloves/protective clothing/eye protection/face protection.

(Contd. on page 2)
IF exposed or concerned: Get medical advice/attention.
Store locked up.
Dispose of contents/container in accordance with local/regional/national/international regulations.

- Classification system:
- NFPA ratings (scale 0 - 4)

```
1 0 0
```

Health = 0
Fire = 1
Reactivity = 0

- HMIS-ratings (scale 0 - 4)

```
Health = *0
Fire = 1
Reactivity = 0
```

- Other hazards
- Results of PBT and vPvB assessment
  - PBT: Not applicable.
  - vPvB: Not applicable.

3 Composition/information on ingredients

- Chemical characterization: Substances
- CAS No. Description
  68515-48-0 diisononyl phthalate
- Identification number(s)
  - EC number: 249-079-5

4 First-aid measures

- Description of first aid measures
  - After inhalation: Supply fresh air; consult doctor in case of complaints.
  - After skin contact: Generally the product does not irritate the skin.
  - After eye contact: Rinse opened eye for several minutes under running water.
  - After swallowing: If symptoms persist consult doctor.

- Information for doctor:
  - Most important symptoms and effects, both acute and delayed
    No further relevant information available.
  - Indication of any immediate medical attention and special treatment needed
    No further relevant information available.

5 Fire-fighting measures

- Extinguishing media
- Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- Special hazards arising from the substance or mixture
  No further relevant information available.
- Advice for firefighters
- Protective equipment: No special measures required.
6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Do not allow to enter sewers/surface or ground water.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- **Reference to other sections**
  See Section 7 for information on safe handling.
  See Section 8 for information on personal protection equipment.
  See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**
  - PAC-1:
    Substance is not listed.
  - PAC-2:
    Substance is not listed.
  - PAC-3:
    Substance is not listed.

7 Handling and storage

- **Handling:**
  - **Precautions for safe handling** Open and handle receptacle with care.
  - **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
  - **Requirements to be met by storerooms and receptacles:** No special requirements.
  - **Information about storage in one common storage facility:** Not required.
  - **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

- **Additional information about design of technical systems** No further data; see item 7.
- **Control parameters**
  - **Components with limit values that require monitoring at the workplace:**
    The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.
    The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit.
    At this time, the remaining constituent has no known exposure limits.
    At this time, the other constituents have no known exposure limits.
- **Additional information:** The lists that were valid during the creation were used as basis.
- **Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      Keep away from foodstuffs, beverages and feed.
      Wash hands before breaks and at the end of work.
Trade name: Diisononyl Phthalate

Store protective clothing separately.

- **Breathing equipment:** Not required.
- **Protection of hands:**
  - **Material of gloves**
    The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.
  - **Penetration time of glove material**
    The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
  - **Eye protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

<table>
<thead>
<tr>
<th>Information on basic physical and chemical properties</th>
<th>General Information</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance:</strong></td>
<td></td>
</tr>
<tr>
<td>Form: Fluid</td>
<td></td>
</tr>
<tr>
<td>Color: Not determined.</td>
<td></td>
</tr>
<tr>
<td>Odor: Characteristic</td>
<td></td>
</tr>
<tr>
<td>Odor threshold: Not determined.</td>
<td></td>
</tr>
<tr>
<td><strong>pH-value:</strong></td>
<td>Not determined.</td>
</tr>
</tbody>
</table>

| Change in condition                                  |                      |
| Melting point/Melting range: Undetermined.           |                      |
| Boiling point/Boiling range: Undetermined.           |                      |

| Flash point: 235 °C (455 °F)                         |                      |

| Flammability (solid, gaseous): Not applicable.        |                      |

| Decomposition temperature: Not determined.            |                      |

| Auto igniting: Not determined.                        |                      |

| Danger of explosion: Product does not present an explosion hazard. | |

| Explosion limits:                                       |                      |
| Lower: Not determined.                                  |                      |
| Upper: Not determined.                                  |                      |

| Vapor pressure: Not determined.                        |                      |

| Density at 20 °C (68 °F): 0.98 g/cm³ (8.1781 lbs/gal) |                      |
| Relative density Not determined.                       |                      |
| Vapor density Not determined.                          |                      |
| Evaporation rate Not determined.                       |                      |

| Solubility in / Miscibility with Water: Not miscible or difficult to mix. | |

| Partition coefficient (n-octanol/water): Not determined. | |

(Contd. on page 5)
Trade name: Diisononyl Phthalate

- **Viscosity:**
  - Dynamic: Not determined.
  - Kinematic: Not determined.
  - VOC content: 0.00 %
  - 0.0 g/l / 0.00 lb/gl
- **Other information**
  - No further relevant information available.

### 10 Stability and reactivity

- **Reactivity**
  - No further relevant information available.
- **Chemical stability**
  - **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
  - **Possibility of hazardous reactions**
  - No dangerous reactions known.
  - **Conditions to avoid**
  - No further relevant information available.
  - **Incompatible materials:** No further relevant information available.
  - **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

<table>
<thead>
<tr>
<th>Substance ID</th>
<th>Classification</th>
<th>Test Method</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>68515-48-0</td>
<td>Not determined</td>
<td>Oral</td>
<td>LD50 &gt;10,000 mg/kg (rat)</td>
</tr>
</tbody>
</table>

- **Primary irritant effect:**
  - **on the skin:** No irritant effect.
  - **on the eye:** No irritating effect.
  - **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**
  - **Carcinogenic categories**
    - **IARC (International Agency for Research on Cancer)**
      - Substance is not listed.
    - **NTP (National Toxicology Program)**
      - Substance is not listed.
    - **OSHA-Ca (Occupational Safety & Health Administration)**
      - Substance is not listed.

### 12 Ecological information

- **Toxicity**
  - **Aquatic toxicity:** No further relevant information available.
  - **Persistence and degradability**
  - No further relevant information available.
  - **Behavior in environmental systems:**
  - **Bioaccumulative potential**
  - No further relevant information available.
  - **Mobility in soil**
  - No further relevant information available.
Trade name: Diisononyl Phthalate

13 Disposal considerations

· Waste treatment methods
  · Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

· Uncleaned packagings:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information

· UN-Number
  · DOT, IMDG, IATA: not regulated

· UN proper shipping name
  · DOT, IMDG, IATA: not regulated

· Transport hazard class(es)
  · DOT, IMDG, IATA: not regulated

· Packing group
  · DOT, IMDG, IATA: not regulated

· Environmental hazards: Not applicable.

· Special precautions for user Not applicable.

· Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.

· UN "Model Regulation": not regulated

15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
  · Sara

· Section 355 (extremely hazardous substances):
  Substance is not listed.

· Section 313 (Specific toxic chemical listings):
  Substance is not listed.

· TSCA (Toxic Substances Control Act):
  Substance is listed.

(Contd. of page 7)
Trade name: Diisononyl Phthalate

- Proposition 65
  - Chemicals known to cause cancer: Substance is not listed.
  - Chemicals known to cause reproductive toxicity for females: Substance is not listed.
  - Chemicals known to cause reproductive toxicity for males: Substance is not listed.
  - Chemicals known to cause developmental toxicity: Substance is not listed.

- Carcinogenic categories
  - EPA (Environmental Protection Agency) Substance is not listed.
  - TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
  - NIOSH–Ca (National Institute for Occupational Safety and Health) Substance is not listed.

- GHS label elements
  The substance is classified and labeled according to the Globally Harmonized System (GHS).

- Hazard pictograms

  GHS08

- Signal word Danger

- Hazard-determining components of labeling:
  diisononyl phthalate

- Hazard statements
  Suspected of causing cancer.
  May damage fertility or the unborn child.

- Precautionary statements
  Obtain special instructions before use.
  Do not handle until all safety precautions have been read and understood.
  Wear protective gloves/protective clothing/eye protection/face protection.
  IF exposed or concerned: Get medical advice/attention.
  Store locked up.
  Dispose of contents/container in accordance with local/regional/national/international regulations.

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Date of preparation / last revision 03/06/2018 / -

- Abbreviations and acronyms:
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods

(Contd. on page 8)
Trade name: Diisononyl Phthalate

DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Carc. 2: Carcinogenicity – Category 2
Repr. 1A: Reproductive toxicity – Category 1A