1 Identification of the substance/mixture and of the company/undertaking

- **Product identifier** DPX Mounting Medium
- **Trade name:** DPX Mounting medium
- **Article number:** AGR1340

Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

Application of the substance / the preparation: Mountant for use in light spectroscopy.

Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Agar Scientific
Elektron Technology UK Ltd
Parsonage Lane
Stansted CM24 8GF
United Kingdom
sales@agarscientific.com
Tel: +44 (0) 1279 813 519

Further information obtainable from: Technical Support
Emergency telephone number: 24 hours: +44 (0)1856 407333

2 Hazards identification

- Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

   - GHS02 flame
   - Flam. Liq. 3 H226 Flammable liquid and vapour.

   - GHS08 health hazard
   - Repr. 1B H360Df May damage the unborn child. Suspected of damaging fertility.

   - GHS07
   - Acute Tox. 4 H332 Harmful if inhaled.
   - Skin Irrit. 2 H315 Causes skin irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.

Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
Trade name: DPX Mounting medium

**3 Composition/information on ingredients**

- **Chemical characterization:** Mixtures
- **Description:** Mixture of substances listed below with nonhazardous additions.

<table>
<thead>
<tr>
<th>CAS: 1330-20-7</th>
<th>xylene</th>
<th>65.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 215-535-7</td>
<td>x Xn R20/21; Xi R38 R10</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Flam. Liq. 3; H226; Acute Tox. 4, H312; Acute Tox. 4, H332;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Skin Irrit. 2, H315</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CAS: 84-74-2</th>
<th>dibutyl phthalate</th>
<th>10.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>EINECS: 201-557-4</td>
<td>T Repr. Cat. 2, 3 R61; Xn R62; N R50 Repr. '18, H360Df; Aquatic Acute 1, H400</td>
<td></td>
</tr>
</tbody>
</table>

- **SVHC**

| 84-74-2 dibutyl phthalate |

- **Additional information:** For the wording of the listed risk phrases refer to section 16.

**4 First aid measures**

- **Description of first aid measures**
- **General information:** No special measures required.
- **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 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**
  - CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture**
  - No further relevant information available.
Trade name: DPX Mounting medium

· Advice for firefighters
  · Protective equipment: No special measures required.

6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures Not required.
· Environmental precautions: No special measures required.
· Methods and material for containment and cleaning up:
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
· 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.

7 Handling and storage

· Handling:
  · Precautions for safe handling No special measures required.
  · Information about fire - and explosion protection: No special measures required.
· 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: None.
    · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical facilities: No further data; see item 7.
· Control parameters

| Ingredients with limit values that require monitoring at the workplace: |
|--------------------------|--------------------------|
| 1330-20-7 xylene         |
| WEL                      | Short-term value: 441 mg/m³, 100 ppm |
|                          | Long-term value: 220 mg/m³, 50 ppm |
|                          | Sk; BMGV                  |
| 84-74-2 dibutyl phthalate|
| WEL                      | Short-term value: 10 mg/m³ |
|                          | Long-term value: 5 mg/m³  |

· Ingredients with biological limit values:

| 1330-20-7 xylene         |
| BMGV                     | 650 mmol/mol creatinine   |
|                          | Medium: urine             |
|                          | Sampling time: post shift |
|                          | Parameter: methyl hippuric acid |

· Additional information: The lists valid during the making were used as basis.
· Exposure controls
· Personal protective equipment:
  · General protective and hygienic measures:
    The usual precautionary measures are to be adhered to when handling chemicals.
  · Respiratory protection: Not required.
Trade name: DPX Mounting medium

- Protection of hands:
The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- 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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- 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

- Information on basic physical and chemical properties
- General Information
- Appearance:
  - Form: Fluid
  - Colour: According to product specification
- Odour:
  - Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
  - Melting point/Melting range: Undetermined.
  - Boiling point/Boiling range: Undetermined.
- Flash point: 30 °C
- Flammability (solid, gaseous): Not applicable.
- Ignition temperature: 390 °C
- Decomposition temperature: Not determined.
- Self-igniting: Product is not selfigniting.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits:
  - Lower: 0.1 Vol %
  - Upper: 7.0 Vol %
- Vapour pressure at 20 °C: 6.7 hPa
- Density: Not determined.
  - Relative density: Not determined.
  - Vapour 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.
- Viscosity:
  - Dynamic: Not determined.
Trade name: DPX Mounting medium

10 Stability and reactivity

- Reactivity
- 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:
  - LD/LC50 values relevant for classification:
    1330-20-7 xylene
    Oral LD50 4300 mg/kg (rat)
    Dermal LD50 2000 mg/kg (rabbit)
    84-74-2 dibutyl phthalate
    Oral LD50 8000 mg/kg (rat)
    Dermal LD50 20000 mg/kg (rabbit)
  - Primary irritant effect:
    - on the skin: No irritant effect.
    - on the eye: No irritating effect.
  - Sensitization: No sensitizing effects known.

12 Ecological information

- Toxicity
  - Aquatic toxicity: No further relevant information available.
  - Persistence and degradability: No further relevant information available.

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13 Disposal considerations

- **Waste treatment methods**
  - **Recommendation** Smaller quantities can be disposed of with household waste.

- **Uncleaned packaging**
  - **Recommendation**: Disposal must be made according to official regulations.

14 Transport information

- **UN-Number**
  - ADR, IMDG, IATA: 1307

- **UN proper shipping name**
  - ADR, IMDG, IATA: Xylenes

- **Transport hazard class(es)**
  - ADR, IMDG, IATA: Class 3

- **Packing group**
  - ADR, IMDG, IATA: II

- **Environmental hazards**:
  - **Marine pollutant**: No

- **Special precautions for user**: Not applicable.

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

15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**

- **National regulations**:

- **Other regulations, limitations and prohibitive regulations**

- **Substances of very high concern (SVHC) according to REACH, Article 57**
  - 84-74-2 dibutyl phthalate

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

16 Other information

This information is based on our present knowledge and should assist the user with the safe handling of this material when properly applied. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
  - H226 Flammable liquid and vapour.
  - H312 Harmful in contact with skin.
  - H315 Causes skin irritation.
  - H332 Harmful if inhaled.
  - H360Df May damage the unborn child. Suspected of damaging fertility.

(Contd. on page 7)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H400</td>
<td>Very toxic to aquatic life.</td>
</tr>
<tr>
<td>R10</td>
<td>Flammable.</td>
</tr>
<tr>
<td>R20/21</td>
<td>Harmful by inhalation and in contact with skin.</td>
</tr>
<tr>
<td>R38</td>
<td>Irritating to skin.</td>
</tr>
<tr>
<td>R50</td>
<td>Very toxic to aquatic organisms.</td>
</tr>
<tr>
<td>R61</td>
<td>May cause harm to the unborn child.</td>
</tr>
<tr>
<td>R62</td>
<td>Possible risk of impaired fertility.</td>
</tr>
</tbody>
</table>

**Abbreviations and acronyms:**
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- VOC: Volatile Organic Compounds (USA, EU)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent