1. IDENTITYIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name: CITOFIX POWDER
Application: For embedding of materialographic specimens
Supplier: Struers A/S
Valhøjs Allé 176
DK-2610 Rødovre
Tel: + 45 3670 3500

2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: binders, fillers and plasticizer.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS-No.:</th>
<th>%:</th>
<th>Hazard classification:</th>
<th>Notes:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dibutyl phthalate</td>
<td>84-74-2</td>
<td>1-3</td>
<td>Rep3;R62-63 N;R50/53</td>
<td>-</td>
</tr>
<tr>
<td>Dibenzoyl peroxide</td>
<td>94-36-0</td>
<td>1-3</td>
<td>E;R2 Xi;R36 R43</td>
<td>-</td>
</tr>
<tr>
<td>Filler</td>
<td></td>
<td>50-90</td>
<td></td>
<td>-</td>
</tr>
<tr>
<td>Binder</td>
<td></td>
<td>10-40</td>
<td></td>
<td>-</td>
</tr>
</tbody>
</table>

3. HAZARDS IDENTIFICATION

Man: Contains a substance/a group of substances with possible risk of harm to the unborn child and with possible risk of impaired fertility. Irritating to eyes. The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals.

Environment: The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

Inhalation: Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring along these instructions.

Skin contact: Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact: Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Seek medical attention and bring along these instructions.

Ingestion: Immediately rinse mouth and drink plenty of water. Keep person under observation. If uncomfortable: Seek hospital and bring along these instructions. Do not induce vomiting.

5. FIRE-FIGHTING MEASURES

Extinguishing media: Use fire-extinguishing media appropriate for surrounding materials.

Specific hazards: By heating and fire, irritating vapours may be formed. Risk of dust explosion.
6. **ACCIDENTAL RELEASE MEASURES**

   **Personal precautions:** Avoid contact with skin and eyes.

   **Environmental precautions:** Avoid discharge into drains, water courses or onto the ground.

   **Methods for cleaning up:** Moisten spillage with water. Collect spillage with granulates, sawdust, rags or other absorbent. For waste disposal, see point 13.

7. **HANDLING AND STORAGE**

   **Safe handling advice:** Observe good industrial hygiene practices. Avoid inhalation of dust and contact with skin and eyes.

   **Technical measures:** Avoid spreading dust.

   **Technical precautions:** Local exhaust is recommended.

   **Technical measures for safe storage:** No special precautions.

   **Storage conditions:** Store in tightly closed original container.

8. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

   **Engineering measures:** Provide adequate ventilation. Observe occupational exposure limits and minimise the risk of inhalation of dust. Local exhaust is recommended.

   **Chemical name:**
   - Dibutyl phthalate: 5mg/m³ TWA - ACGIH (1999)
   - Benzoyl peroxide: 5mg/m³ TWA A4 ACGIH (1999)
   - Benzoyl peroxide: 5mg/m³ TWA - OSHA 1998

   **Respiratory equipment:** During dust-raising work: Use respiratory equipment with particle filter, type P2.

   **Hand protection:** Risk of contact: Wear protective gloves. Laminate (PE/EVOH) gloves are recommended.

   **Eye protection:** Goggles/face shield are recommended.

   **Skin protection:** No special precautions.
9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>yellow powder</td>
</tr>
<tr>
<td>Odour</td>
<td>not available</td>
</tr>
<tr>
<td>pH</td>
<td>not relevant</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt;250°C</td>
</tr>
<tr>
<td>Flash point</td>
<td>not available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>not available</td>
</tr>
<tr>
<td>Relative density</td>
<td>2.1</td>
</tr>
<tr>
<td>Solubility</td>
<td>insoluble in water</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

- **Stability**: Stable under normal temperature conditions.
- **Conditions/ materials to avoid**: Reacts with acids. Heating.
- **Hazardous decomposition products**: By heating and fire, irritating vapours may be formed.

11. TOXICOLOGICAL INFORMATION

- **Inhalation**: Dust may irritate throat and respiratory system and cause coughing.
- **Skin contact**: Prolonged contact may cause redness and irritation. Risk of sensitization or allergic reactions among sensitive individuals.
- **Eye contact**: Dust in the eyes will cause irritation.
- **Ingestion**: May irritate and cause malaise.
- **Specific effects**: Contains a substance/a group of substances with possible risk of harm to the unborn child and with possible risk of impaired fertility.
- **Carcinogenicity**:
  - National Toxicology Program (NTP): No.
  - I.A.R.C. Monographs: No.
  - OSHA: No.

12. ECOLOGICAL INFORMATION

- **Mobility**: The product is insoluble in water.
- **Degradability**: The product is potentially degradable.
- **Ecotoxicity**: The product contains a substance which is very toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
13. DISPOSAL CONSIDERATIONS

Dispose of waste and residues according to agreement with local authorities. Waste should be considered as dangerous waste.

Waste from residues: EWC-code: 20 01 12

Contaminated packaging: Dispose of contaminated packings as residue.

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

15. REGULATORY INFORMATION

Labelling:

Contains: Dibenzoyl peroxide

R36 Irritating to eyes.
R43 May cause sensitisation by skin contact.
S36/37 Wear suitable protective clothing and gloves.

NFPA Rating:

Specific provisions: TSCA: Listed.


This Safety Data Sheet has been prepared according to the EU-regulation. Threshold Limit Values (1999), ACGIH, by the American Conference on Governmental Industrial Hygienists.

16. OTHER INFORMATION

The user must be instructed in the proper work procedure and be familiar with the contents of these instructions.

Released: 14 March 1995
Approved by DTC.

The information on this data sheet represents our current data and is reliable provided that the product is used under the prescribed conditions and in accordance with the application specified on the packaging and/or in the technical guidance literature. Any other use of the product which involves using the product in combination with any other product or any other process is the responsibility of the user.

Made by DANISH TOXICOLOGY CENTRE, Kogle Allé 2, DK-2970 Hørsholm, Denmark. Telephone +45 45 76 20 55 Telefax +45 45 76 24 55