SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product name:** DUROCIT POWDER  
Cat. No. 40200095, 40200081  
**Container size:** 570 g, 3 kg

**Relevant identified uses of the substance or mixture and uses advised against**

**Application:** For embedding of materialographic specimens

**Details of the supplier of the safety data sheet**

**Supplier:** Struers ApS  
Pederstrupvej 84  
DK-2750 Ballerup  
Tel:+45 44 600 800

**Responsible for material safety data sheet authoring:** Responsible for material safety data sheet authoring: DHI  
Any questions to the contents of this material safety data sheet should be sent to: struers@struers.dk

**Emergency telephone number**

- National Capital Poison Center: 1-800-222-1222
- Infotrac: 1-800-535-5053  
- Struers US: 1-440-871-0071
**SECTION 2: HAZARDS IDENTIFICATION**

**Classification of the substance or mixture**

**OSHA 2012:**
- Skin Sensitizer Category 1B
- Category 1B reproductive toxicant (*)

**Label elements**

(*)

**Danger**

H317 May cause an allergic skin reaction.
H360 May damage fertility or the unborn child.
P201 Obtain special instructions before use.
P261 Avoid breathing dust/fume/gas/mist/ vapours/spray.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.

P202 Do not handle until all safety precautions have been read and understood.
P272 Contaminated work clothing should not be allowed out of the workplace.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local regulations.

**Other hazards**

**PBT/vPvB:**
No information available.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Mixtures**

The product contains: fillers and hardener. (*)
SECTION 4: FIRST AID MEASURES

Description of first aid measures

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

Eye contact: Immediately flush with plenty of water for at least 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring along these instructions.

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

Most important symptoms and effects, both acute and delayed

Symptoms/effects: See section 11 for more detailed information on health effects and symptoms.

Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Unsuitable extinguishing media: No specific precautions.

Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, harmful vapors/gases may be formed. (*)

Advice for firefighters

Protective equipment for firefighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin and eyes. Avoid inhalation of dust.

Environmental precautions

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

Methods and material for containment and cleaning up

Spill Cleanup Methods: Collect spillage with shovel, broom or the like.

Reference to other sections

References: For personal protection, see section 8. For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

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

Technical measures: Avoid spreading dust.

Technical precautions: Local exhaust is recommended.

Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: No special precautions.

Storage conditions: Store in closed original container in a dry place. Store locked up. (*)

Specific end use(s)

Specific use(s): No information available.
### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters**

**Occupational exposure limits:**

<table>
<thead>
<tr>
<th>CAS-No.:</th>
<th>Chemical name</th>
<th>As:</th>
<th>Exposure limits:</th>
<th>Type:</th>
<th>Notes:</th>
<th>References:</th>
</tr>
</thead>
<tbody>
<tr>
<td>94-36-0</td>
<td>Benzoyl peroxide</td>
<td>-</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>OSHA</td>
</tr>
<tr>
<td>-</td>
<td>Particulates not otherwise regulated (PNOR), total dust</td>
<td>-</td>
<td>15 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>OSHA</td>
</tr>
<tr>
<td>-</td>
<td>Particulates not otherwise regulated (PNOR), respirable fraction</td>
<td>-</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>OSHA</td>
</tr>
<tr>
<td>94-36-0</td>
<td>Benzoyl peroxide</td>
<td>-</td>
<td>5 mg/m³</td>
<td>TWA</td>
<td>A4</td>
<td>ACGIH</td>
</tr>
<tr>
<td>-</td>
<td>Particles (Insoluble or Poorly Soluble), not Otherwise Specified, respirable particles</td>
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<td>3 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>ACGIH</td>
</tr>
<tr>
<td>-</td>
<td>Particles (Insoluble or Poorly Soluble), not Otherwise Specified, inhalable particles</td>
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<td>10 mg/m³</td>
<td>TWA</td>
<td>-</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

**Notes:**

A4: Not Classifiable as a Human Carcinogen.

### Exposure controls

**Engineering measures:**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of dust. Local exhaust is recommended.

**Personal protection:**

Personal protection equipment should be chosen according to the ANSI standards and in discussion with the supplier of the personal protective equipment.

**Respiratory equipment:**

In case of inadequate ventilation use suitable respirator. Use respiratory equipment with combination filter, type A2/P2. (*)

**Hand protection:**

Wear protective gloves. Butyl rubber gloves are recommended. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

**Eye protection:**

Goggles/face shield are recommended.

**Skin protection:**

Wear apron or protective clothing in case of contact.

**Hygiene measures:**

Wash contaminated clothing before reuse. When using do not eat or drink. (*)

**Environmental Exposure Controls:**

Not available.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

- **Form:** Powder.
- **Color:** Yellow.
- **Odor:** Odorless.
- **Boiling point:** 4046°F
- **Flash point:** Not relevant.
- **Explosion limits:** Not relevant.
- **Relative density:** Not available.
- **Solubility:** Insoluble in water

Other information

- **Other data:** Volatile Organic Compound (VOC): 0 g/l (calculated)

SECTION 10: STABILITY AND REACTIVITY

**Reactivity**

- **Reactivity:** No data available.

**Chemical stability**

- **Stability:** Stable under normal temperature conditions.

**Possibility of hazardous reactions**

- **Hazardous Reactions:** No data available.

**Conditions to avoid**

- **Conditions/materials to avoid:** No information available.

**Incompatible materials**

- **Incompatible materials:** No information available.

**Hazardous decomposition products**

- **Hazardous decomposition products:** No information available.
SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity (Oral): Based on available data, the classification criteria are not met.

Acute Toxicity (Dermal): Based on available data, the classification criteria are not met.

Acute Toxicity (Inhalation): Based on available data, the classification criteria are not met.

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious eye damage/irritation: Based on available data, the classification criteria are not met.

Respiratory or skin sensitization: May cause an allergic skin reaction.

Germ cell mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: Based on available data, the classification criteria are not met. National Toxicology Program (NTP): No. IARC Cancer Review: Group 3 for Benzoyl peroxide. OSHA: No.

Reproductive Toxicity: May damage fertility or the unborn child. (*)

STOT - Single exposure: Based on available data, the classification criteria are not met.

STOT - Repeated exposure: Based on available data, the classification criteria are not met.

Aspiration hazard: Based on available data, the classification criteria are not met.

Inhalation: Dust may irritate throat and respiratory system and cause coughing.

Skin contact: Prolonged contact may cause redness and irritation.

Eye contact: Dust in the eyes will cause irritation.

Ingestion: May irritate and cause malaise.

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity: The environmental hazard of the product is considered to be limited.

Persistence and degradability

Degradability: The product consists mainly of inorganic compounds, which are not biodegradable.

Bioaccumulative potential

Bioaccumulative potential: No data available on bioaccumulation.

Mobility in soil

Mobility: No data available.

Results of PBT and vPvB assessment

PBT/vPvB: No information available.

Other adverse effects

Other adverse effects: No information available.
**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

**Waste from residues:** Dispose of waste and residues in accordance with local authority requirements.

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**SECTION 14: TRANSPORT INFORMATION**

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

**UN number**

**UN-No:** -

**UN proper shipping name**

**Proper Shipping Name:** -

**Transport hazard class(es)**

**Class:** -

**Packing group**

**PG:** -

**Environmental hazards**

**Marine pollutant:** -

**Environmentally Hazardous substance:** -

**Special precautions for user**

**Special precautions:** None known.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

**Transport in bulk:** Not relevant.
SECTION 15: REGULATORY INFORMATION

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

Special provisions: State and local regulation may apply.

TSCA: Listed.

NFPA Rating: Health: 2  Fire: 0  Reactivity: 0  Other:-

SARA Section 302: No.
SARA Section 304: No.
SARA Section 313: Yes.
SARA (311/312) Hazard categories: Yes.

National regulation: The following lists have been checked:
Threshold Limit Values (2018), ACGIH, by the American Conference on Governmental Industrial Hygienists.
NIOSH Pocket Guide to Chemical Hazards.
The Code of Federal Regulation, Title 40, part 261.33. Identification and listing of hazardous waste.
SECTION 16: OTHER INFORMATION

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

The following sections contain revisions or new statements: 2, 3, 5, 7, 8, 11.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Allan Vorup

Additional information: Classification according to HCS 2012:
Calculation method.

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 DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.