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

1.1. Product identifier

Product name: DUROFAST
Cat. No. 40100044, 40100045
Container size: 1 kg; 7,5 kg

1.2. Relevant identified uses of the substance or mixture and uses advised against

Application: For embedding of materialogic specimens

1.3. Details of the supplier of the safety data sheet

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

Responsible for safety data sheet authoring: Responsible for safety data sheet authoring: DHI

Any questions to the contents of this safety data sheet should be sent to: struers@struers.dk

1.4. Emergency telephone number

NHS: 111

+45 44 600 800
(Only during office hours)
SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP:
- Skin Irrit. 2;H315
- Eye Irrit. 2;H319
- Skin Sens. 1;H317

2.2. Label elements

Warning

Contains:
- Bisphenol-A-epichlorhydrin, epoxy resin
- Tetrabromophthalic anhydride

H315
Causes skin irritation.

H317
May cause an allergic skin reaction.

H319
Causes serious eye irritation.

P280
Wear protective clothing, gloves, eye and face protection.

P302 + P352
IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P333 + P313
If skin irritation or rash occurs: Get medical advice/attention.

P337 + P313
If eye irritation persists: Get medical advice/attention.

P501
Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3. Other hazards

Fine particles may form explosive vapour/air mixtures.

PBT/vPvB:
No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

The product contains: epoxy resin and fillers.

CLP:

<table>
<thead>
<tr>
<th>%</th>
<th>CAS-No.:</th>
<th>EC No.:</th>
<th>REACH Reg. No:</th>
<th>Chemical name:</th>
<th>Hazard classification:</th>
<th>Notes:</th>
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<tbody>
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<td>10−20</td>
<td>25036-25-3</td>
<td>607-500-3</td>
<td>-</td>
<td>Bisphenol-A-epichlorhydrin, epoxy resin</td>
<td>Skin Irrit. 2;H315</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2;H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Skin Sens. 1;H317</td>
<td></td>
</tr>
<tr>
<td>10−25</td>
<td>632-79-1</td>
<td>211-185-4</td>
<td>-</td>
<td>Tetrabromophthalic anhydride</td>
<td>Skin Sens. 1;H317</td>
<td></td>
</tr>
<tr>
<td>50−100</td>
<td>13983-17-0</td>
<td>237-772-5</td>
<td>-</td>
<td>Calcium silicate</td>
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<td></td>
</tr>
</tbody>
</table>
SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

Inhalation: Move injured person into fresh air and keep person calm under observation. If necessary, 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 seek hospital and bring these instructions.

4.2. Most important symptoms and effects, both acute and delayed

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

4.3. Indication of any immediate medical attention and special treatment needed

Medical attention/treatments: Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

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

Unsuitable extinguishing media: No specific precautions.

5.2. Special hazards arising from the substance or mixture

Specific hazards: When heated and in case of fire, irritating vapours/gases may be formed.

5.3. 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

6.1. Personal precautions, protective equipment and emergency procedures

Protective equipment: Avoid inhalation of dust. Avoid contact with skin and eyes. For personal protection, see section 8. (*)

Emergency procedures: No specific recommendations. For personal protection, see section 8. (*)

6.2. Environmental precautions

Environmental precautions: Do not discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Collect spillage with shovel, broom or the like. Dispose of collected dust according to agreement with local authorities.

6.4. Reference to other sections

References: For waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Safe handling advice: Observe good chemical hygiene practices. Avoid contact with skin and eyes. Avoid inhalation of dust. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site.

Technical measures: Work practice should minimise contact. Technical aids: Use disposable equipment (rags, brushes, spatulas, putty knives, etc.), if possible.

Technical precautions: Local exhaust is recommended.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures for safe storage: No special precautions.

Storage conditions: Store in tightly closed original container. Store at room temperature.

7.3. Specific end use(s)

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

8.1. 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>-</td>
<td>Dusts, respirable dust</td>
<td>-</td>
<td>4 mg/m3</td>
<td>TWA</td>
<td>-</td>
<td>EH40</td>
</tr>
<tr>
<td>-</td>
<td>Dusts, total inhalable dust</td>
<td>-</td>
<td>10 mg/m3</td>
<td>TWA</td>
<td>-</td>
<td>EH40</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

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

- **Personal protection:** Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

- **Respiratory equipment:** In case of inadequate ventilation and work of brief duration, use suitable respiratory equipment. Use respiratory equipment with particle filter, type P2.

- **Hand protection:** Wear protective gloves. Nitrile gloves are recommended.

- **Eye protection:** Wear goggles/face shield.

- **Skin protection:** No special precautions.

- **Environmental Exposure Controls:** Not available.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties
(*)

Form: granulates
Colour: Black.
Odour: Odourless.
Odour threshold: Not available.
\( \text{pH} \): Not available.
Melting point: \( > 80°C \)
Boiling point: Not available.
Flash point: Not available.
Evaporation rate: Not available.
Flammability (solid, gas): Not available.
Explosive limits: Not available.
Vapour pressure: Not available.
Vapour density: Not available.
Relative density: 2.2 - 2.3
Solubility: insoluble in water
Partition coefficient (n-octanol/water): Not available.
Auto-ignition temperature (\( °C \)): Not available.
Decomposition temperature (\( °C \)): Not available.
Viscosity: Not available.
Explosive properties: Not available.
Oxidising properties: Not available.

9.2. Other information

Other data: Volatile Organic Compound (VOC): 0 g/l
**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**  
Reactivity: No data available.

**10.2. Chemical stability**  
Stability: Stable under normal temperature conditions.

**10.3. Possibility of hazardous reactions**  
Hazardous Reactions: No data available.

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

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

**10.6. Hazardous decomposition products**  
Hazardous decomposition products: Carbon monoxide (CO). Halogenated hydrocarbons.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. 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: Causes skin irritation.  
Serious eye damage/irritation: Causes serious eye irritation.  
Respiratory or skin sensitisation: 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.  
Reproductive Toxicity: Based on available data the classification criteria are not met.  
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.
SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity
Ecotoxicity: The product is not expected to be hazardous to the environment.

12.2. Persistence and degradability
Degradability: The product is not readily biodegradable.

12.3. Bioaccumulative potential
Bioaccumulative potential: No data available on bioaccumulation.

12.4. Mobility in soil
Mobility: No data available.

12.5. Results of PBT and vPvB assessment
PBT/vPvB: No information available.

12.6. Other adverse effects
Other adverse effects: No information available.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods
Waste from residues: Dispose of waste and residues in accordance with local authority requirements. Waste is classified as hazardous waste. Note that fully cured material is not considered as hazardous waste.

EWC-code: 16 05 08

Contaminated packaging: Dispose of waste and residues in accordance with local authority requirements.
SECTION 14: TRANSPORT INFORMATION

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

14.1. UN number
UN-No: -

14.2. UN proper shipping name
Proper Shipping Name: -

14.3. Transport hazard class(es)
Class: -

14.4. Packing group
PG: -

14.5. Environmental hazards
Marine pollutant: -
Environmentally Hazardous substance: -

14.6. Special precautions for user
Special precautions: None known.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code
Transport in bulk: Not relevant.
SECTION 15: REGULATORY INFORMATION

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

Special provisions: As a general rule, persons under 18 years of age are not allowed to work with this product. Users must be carefully instructed in the proper work procedure, the dangerous properties of the product and the necessary safety instructions.


15.2. Chemical Safety Assessment

CSA status: No chemical safety assessment has been carried out.
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: 6, 9.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Allan Vorup

Additional information: Classification according to Regulation (EC) No. 1272/2008:
Calculation method.

Wording of H-statements:

H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.

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.