

Product name: DUROFAST  
Revision Date: 2016-12-13  
Document No.: M0047

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SDS-ID: GB-EN/14.0

## 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 materialographic 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

Emergency telephone: NHS Direct: 0845 46 47 (England or Wales)  
NHS 24: 08454 24 24 24 (Scotland) (\*)  
  
+45 44 600 800  
(Only during office hours)

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## 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

PBT/vPvB: Not relevant.

Other: Dust may form explosive mixture with air.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: epoxy resin and fillers.

CLP:

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

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References: The full text for all hazard statements is displayed in section 16.

## 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 up to 15 minutes. Remove any contact lenses and open eyelids widely. If irritation persists: Continue flushing during transport to hospital. Bring 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: Not known.

## 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 fire-fighters: 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**

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

### **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.

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## 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): Not relevant.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Occupational exposure limits:

<u>CAS-No.:</u>	<u>Chemical name:</u>	<u>As:</u>	<u>Exposure limits:</u>	<u>Type:</u>	<u>Notes:</u>	<u>References:</u>
-	Dusts, respirable dust	-	4 mg/m <sup>3</sup>	TWA	-	EH40
-	Dusts, total inhalable dust	-	10 mg/m <sup>3</sup>	TWA	-	EH40

### 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.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

Appearance: granulates  
Colour: Black.  
Odour: Odourless.  
pH: Not available.  
Melting point: > 80°C  
Boiling point: Not available.  
Flash point: Not available.  
Explosive limits Not available.  
Relative density: 2,2 - 2,3  
Solubility: insoluble in water

### 9.2. Other information

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

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: None known.

### 10.2. Chemical stability

Stability: Stable under normal temperature conditions.

### 10.3. Possibility of hazardous reactions

Hazardous Reactions: None known.

### 10.4. Conditions to avoid

Conditions/materials to avoid: None specific.

### 10.5. Incompatible materials

Incompatible materials: None specific.

### 10.6. Hazardous decomposition products

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

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## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

<u>Acute Toxicity (Oral):</u>	Based on available data the classification criteria are not met.
<u>Acute Toxicity (Dermal):</u>	Based on available data the classification criteria are not met.
<u>Acute Toxicity (Inhalation):</u>	Based on available data the classification criteria are not met.
<u>Skin Corrosion/Irritation:</u>	Causes skin irritation.
<u>Serious eye damage/irritation:</u>	Causes serious eye irritation.
<u>Respiratory or skin sensitisation:</u>	May cause an allergic skin reaction.
<u>Germ cell mutagenicity:</u>	Based on available data the classification criteria are not met.
<u>Carcinogenicity:</u>	Based on available data the classification criteria are not met.
<u>Reproductive Toxicity:</u>	Based on available data the classification criteria are not met.
<u>STOT - Single exposure:</u>	Based on available data the classification criteria are not met.
<u>STOT - Repeated exposure:</u>	Based on available data the classification criteria are not met.
<u>Aspiration hazard:</u>	Based on available data the classification criteria are not met.
<u>Inhalation:</u>	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: Not relevant.

### 12.6. Other adverse effects

Other adverse effects: None known.

## 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.

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## 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.

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## 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.

National regulation: Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, with amendments.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.  
The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.  
EH40/2005, Workplace exposure limits 2005, with amendments.  
The Management of Health and Safety at Work Regulations 1999 (SI 1999 No. 3242), with amendments.  
The List of Wastes (England) (Amendment) Regulations 2005. (SI 2005 No. 895).

### **15.2. Chemical Safety Assessment**

CSA status: Not relevant.

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## 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: 1.

The (\*) indicates the changes made with respect to the previous version.

Approved by DHI.



### Additional information:

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

### Wording of R-phrases/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.  
[www.dhigroup.com](http://www.dhigroup.com).