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Document No.:	M0025	SDS-ID:	GB-EN/21.0

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

### 1.1. Product identifier

Product name: EPOFIX RESIN  
Cat. No. 40200030, 40200029

Container size: 1 l

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

Application: For embedding and impregnation of materialographic specimens (\*)

Uses advised against: No specific uses advised against are identified.

### 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)

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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. 1B;H317 (\*)  
Aquatic Chronic 2;H411

### 2.2. Label elements

(\*)



Warning

Contains: Bis[4-(2,3-epoxypropoxy)phenyl]propane  
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

P273 Avoid release to the environment.

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.

### 2.3. Other hazards

PBT/vPvB: Not Classified as PBT/vPvB by current EU criteria.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

The product contains: epoxy resin. (\*)

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CLP:

<u>%:</u>	<u>CAS-No.:</u>	<u>EC No.:</u>	<u>REACH Reg. No:</u>	<u>Chemical name:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
60-90	1675-54-3	216-823-5	01-2119456619-26-xxxx	Bis[4-(2,3-epoxypropoxy)phenyl]propane	Skin Irrit. 2;H315 Eye Irrit. 2;H319 Skin Sens. 1B;H317 Aquatic Chronic 2;H411	
10-40	68609-97-2	271-846-8	01-2119485289-22-xxxx	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Skin Irrit. 2;H315 Skin Sens. 1B;H317	

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 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 seek hospital and bring these instructions. Do not induce vomiting.

### 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: Extinguish with foam, carbon dioxide, dry powder or water fog.  
Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

### 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.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

For non-emergency personnel: Avoid inhalation of vapours and aerosols and contact with skin and eyes. For personal protection, see section 8.

For emergency responders: No specific recommendations. For personal protection, see section 8.

### **6.2. Environmental precautions**

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

### **6.3. Methods and material for containment and cleaning up**

Methods for cleaning up: Absorb spillage with suitable absorbent material.

### **6.4. Reference to other sections**

References: For personal protection, see section 8. 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 inhalation of vapours and aerosols and contact with skin and eyes.  
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: First-aid equipment, including eye wash bottle, must be available at the work site.

### **7.2. 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. Avoid contact with oxidising agents.

### **7.3. Specific end use(s)**

Specific use(s): No information available.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **8.1. Control parameters**

No occupational exposure limit assigned.

### **8.2. Exposure controls**

#### Engineering measures:

Mix and prepare in a place with efficient exhaust ventilation. An eye wash bottle must be available at the work site.

#### 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. It is recommended to use respiratory equipment with combination filter, type ABEK

#### Hand protection:

Use disposable gloves protecting against epoxy along with cotton gloves closest to the skin. 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:

Wear goggles/face shield.

#### Skin protection:

Risk of contact: Wear apron or protective clothing in case of splashes.

#### Hygiene measures:

Remove contaminated clothing and wash the skin thoroughly with soap and water after work. When using do not eat, drink or smoke.

#### Environmental Exposure Controls:

Not available.

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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

<u>Form:</u>	Liquid.
<u>Colour:</u>	Colourless to pale yellow.
<u>Odour:</u>	Mild.
<u>Odour threshold:</u>	Not available.
<u>pH:</u>	Not available.
<u>Melting point:</u>	Not available.
<u>Boiling point:</u>	>148°C
<u>Flash point:</u>	176,7 - 190,6°C
<u>Evaporation rate:</u>	Not available.
<u>Flammability (solid, gas):</u>	Not available.
<u>Explosive limits</u>	Not available.
<u>Vapour pressure:</u>	0,06 mmHg (21°C)
<u>Vapour density:</u>	Not available.
<u>Relative density:</u>	1,11 - 1,14
<u>Solubility:</u>	Insoluble in water.
<u>Partition coefficient (n-octanol/water):</u>	Not available.
<u>Auto-ignition temperature (°C):</u>	Not available.
<u>Decomposition temperature (°C):</u>	Not available.
<u>Viscosity:</u>	600 - 800 cP (25°C)
<u>Explosive properties:</u>	Not available.
<u>Oxidising properties:</u>	Not available.
<b><u>9.2. Other information</u></b>	
<u>Other data:</u>	Volatile Organic Compound (VOC): 0 g/l

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## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

Reactivity: No data available.

### 10.2. Chemical stability

Stability: Stable under normal temperature conditions.  
Curing time: 12 hours

### 10.3. Possibility of hazardous reactions

Hazardous Reactions: Reacts with alkalis and amines generating excessive heat.

### 10.4. Conditions to avoid

Conditions/materials to avoid: Heating, moisture, water and amines. Strong oxidising substances, strong acids and strong bases.

### 10.5. Incompatible materials

Incompatible materials: Strong oxidising substances, strong acids and strong bases.

### 10.6. Hazardous decomposition products

Hazardous decomposition products: When heated and in case of fire, irritating vapours/gases may be formed.

## 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: Not relevant at normal room temperatures. When heated, irritating vapours may be formed.

Ingestion: Irritating. May cause nausea, stomach pain and vomiting.

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## SECTION 12: ECOLOGICAL INFORMATION

### **12.1. Toxicity**

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Bis[4-(2,3-epoxypropoxy)phenyl]propane:  
LC50 (Oncorhynchus mykiss, 96 h): 2 mg/l (\*)

### **12.2. Persistence and degradability**

Degradability: This product is expected to be not readily biodegradable.

### **12.3. Bioaccumulative potential**

Bioaccumulative potential: The product contains potentially bioaccumulating substances.  
log Pow 3-5

### **12.4. Mobility in soil**

Mobility: Oxirane, mono[(C12-14-alkyloxy)methyl] derivs. (Koc: >5000)  
Bis[4-(2,3-epoxypropoxy)phenyl]propane (Koc: 500-2000)

### **12.5. Results of PBT and vPvB assessment**

PBT/vPvB: This product does not contain any PBT or vPvB substances.

### **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.

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## SECTION 14: TRANSPORT INFORMATION

The product is covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

### **14.1. UN number**

UN-No: 3082

### **14.2. UN proper shipping name**

Proper Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(Epoxy Resin)

Additional IMDG information:

EmS: F-A, S-F

MFAG: 1

### **14.3. Transport hazard class(es)**

Class: 9

### **14.4. Packing group**

PG: III

### **14.5. Environmental hazards**

Marine pollutant: Yes.

Environmentally Hazardous substance: Yes.

### **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: No chemical safety assessment has been carried out.

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