

# MATERIAL SAFETY DATA SHEET



according to EEC Directives 91/155/EEC and 93/112/EC

Product name: EPOFIX RESIN Page: 1/6  
Last revised date: 2000-01-27 Print date: 2000-01-28  
P/N-no.: M1201025 SDS-ID: US-D/1.0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

Product name: EPOFIX RESIN  
Application: For embedding and impregnation of materialographic specimens Container size: 1 l  
Supplier: Struers A/S  
Valhøjs Allé 176  
2610 Rødovre  
Tel: +45 3670 3500

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: epoxy resin.

<u>Chemical name:</u>	<u>CAS-No.:</u>	<u>%:</u>	<u>Hazard classification:</u>	<u>Notes:</u>
Reaction product: bisphenol A-(epichlorhydrin); epoxy resin (number average molecular weight < 700)	25085-99-8	60-90	Xi;R36/38 R43 N;R51/53	-
Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	68609-97-2	10-40	Xi;R38 R43	-

## 3. HAZARDS IDENTIFICATION

Man: Irritating and may cause redness, itching and small vesicles. Risk of sensitization to epoxy compounds. Irritating to eyes.

Environment: The product contains a substance which is 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 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 uncomfortable: Seek hospital and bring along these instructions. Do not induce vomiting.

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## 5. FIRE-FIGHTING MEASURES

Extinguishing media: Extinguish with foam, carbon dioxide, dry powder or water fog.

Specific hazards: By heating and fire, irritating vapours may be formed.

Protective equipment for fire-fighters: Use air-supplied respirator during fire fighting.

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## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. For personal protection, see point 8.

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

Methods for cleaning up: Absorb spillage with absorbing material. For waste disposal, see point 13.

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## 7. HANDLING AND STORAGE

Safe handling advice: Observe good industrial hygiene practices. Avoid 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.

Technical measures for safe storage: No special precautions.

Storage conditions: Store in closed original container in a dry place.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

Respiratory equipment: In case of inadequate ventilation, use air-supplied full-mask.

Hand protection: Use disposable gloves protecting against epoxy along with cotton gloves closest to the skin. Laminate (PE/EVOH) gloves are recommended. Consult the glove supplier to find the most suitable gloves.

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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear yellowish liquid  
Odour: odourless  
pH: not relevant  
Boiling point: Decomposes prior to boiling  
Flash point: 177°C  
Explosive properties: not relevant  
Relative density: 1,1 mg/cm<sup>3</sup>  
Solubility: < 1% in water

## 10. STABILITY AND REACTIVITY

Stability: Stable under normal temperature conditions.

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

Hazardous  
decomposition products: By heating and fire, irritating vapours may be formed.

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## 11. TOXICOLOGICAL INFORMATION

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

Skin contact: Irritating and may cause redness, itching and small vesicles. Risk of sensitization to epoxy compounds.

Eye contact: Irritating and may cause redness and pain.

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

Specific effects: Risk of sensitization to epoxy compounds.  
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: This product is expected to be heavily biodegradable.

Ecotoxicity: The product contains a substance which is 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

UN-number: 3082      Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCES, LIQUID, N.O.S (Epoxy resin).

Sea (IMDG):      **Class:** 9      **PG:** -      **MP:** Yes

**EmS:** -      **MFAG:** -

PG: To be handled locally.

Land (RID/ADR):      **Class:** -      **Item:** -      **Letter:** -

Air (ICAO):      **Class:** -      **PG:** -

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## 15. REGULATORY INFORMATION

### Labelling:

Contains:

Reaction product: bisphenol A-  
(epichlorhydrin); epoxy resin  
(number average molecular weight  
< 700)  
Oxirane, mono[(C12-14-  
alkyloxy)methyl] derivs.



Irritant

R36/38

Irritating to eyes and skin.

R43

May cause sensitisation by skin contact.

S24

Avoid contact with skin.

S37/39

Wear suitable gloves and eye/face protection.

Contains epoxy constituents. See information supplied by the manufacturer.

NFPA Rating:



### Specific provisions:

TSCA: Listed.

### National regulation:

Europe/USA:

This Safety Data Sheet has been prepared according to the EU-regulation.

EC Directives 67/548/EEC on dangerous substances and 88/379/EEC on dangerous preparations (up to and inclusive of the 25th adaptation).

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## 16. OTHER INFORMATION

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

Transport information (ICAO):

Pass: 914/No limit

Cargo: 914/No limit

Released: 21 March 1995

Approved by DTC.

*Frank G. Berglund*

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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

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Filing No: 41452-10899