

SAFETY DATA SHEET



Product name: EPOFIX RESIN
Revision Date: 2011-11-01
Document No.: M0025

Page: 1/9
Print date: 2011-11-11
SDS-ID: AU-EN/11.0

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

Product identifier

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

Container size: 1 l

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

Application: For embedding and impregnation of materialographic specimens

Details of the supplier of the safety data sheet

Supplier: Struers Australia
27 Mayneview Street
Milton QLD 4064, Australia
Responsible for safety data sheet authoring: DHI
Any questions to the contents of this safety data sheet should be sent to:
Lisbeth.Mygind@struers.dk (*)

Emergency telephone number

Emergency telephone: +61 7 3512 9600
(Only during office hours)

SAFETY DATA SHEET

Product name: EPOFIX RESIN
Revision Date: 2011-11-01
Document No.: M0025

Page: 2/9
Print date: 2011-11-11
SDS-ID: AU-EN/11.0

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

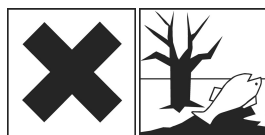
This product is classified as hazardous according to criteria of NOHSC:
HAZARDOUS SUBSTANCES. DANGEROUS GOODS

67/548/EEC: The product is classified: R43 Xi;R36/38 N;R51/53

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

Environment: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements



Irritant

Dangerous
for the
environment

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

R36/38 Irritating to eyes and skin.

R43 May cause sensitisation by skin contact.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S28 After contact with skin, wash immediately with plenty of water.

S35 This material and its container must be disposed of in a safe way.

S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

S57 Use appropriate containment to avoid environmental contamination.

Contains epoxy constituents. See information supplied by the manufacturer.

Other hazards

PBT/vPvB: Not relevant.

SAFETY DATA SHEET

Product name: EPOFIX RESIN
Revision Date: 2011-11-01
Document No.: M0025

Page: 3/9
Print date: 2011-11-11
SDS-ID: AU-EN/11.0

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures

The product contains: epoxy resin.

67/548/EEC:

<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	25068-38-6	500-033-5	-	Reaction product: bisphenol-A -(epichlorhydrin), epoxy resin (number average molecular weight <= 700)	R43 Xi;R36/38 N;R51-53	
10-40	68609-97-2	271-846-8	-	Oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	R43 Xi;R38	

GHS/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	25068-38-6	500-033-5	-	Reaction product: bisphenol-A -(epichlorhydrin), epoxy resin (number average molecular weight <= 700)	Eye Irrit. 2;H319 Skin Irrit. 2;H315 Skin Sens. 1;H317 Aquatic Chronic 2;H411	
10-40	68609-97-2	271-846-8	-	Oxirane, mono[(C12-14- alkyloxy)methyl] derivs.	Skin Irrit. 2;H315 Skin Sens. 1;H317	

References: The Full Text for all R-Phrases and Hazard Statements is Displayed in Section 16.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

<u>Inhalation:</u>	Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.
<u>Skin contact:</u>	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.
<u>Eye contact:</u>	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 along these instructions.
<u>Ingestion:</u>	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.

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: Not known.

SAFETY DATA SHEET

Product name:	EPOFIX RESIN	Page:	4/9
Revision Date:	2011-11-01	Print date:	2011-11-11
Document No.:	M0025	SDS-ID:	AU-EN/11.0

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

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

Special hazards arising from the substance or mixture

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

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

Personal precautions, protective equipment and emergency procedures

Personal precautions: Avoid contact with skin and eyes.

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: Absorb spillage with suitable absorbent material.

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 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.

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.

Specific end use(s)

Specific use(s): Not relevant.

SAFETY DATA SHEET

Product name: EPOFIX RESIN
Revision Date: 2011-11-01
Document No.: M0025

Page: 5/9
Print date: 2011-11-11
SDS-ID: AU-EN/11.0

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

No occupational exposure limit assigned.

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. Use respiratory equipment with gas filter, type K.

Hand protection: Use disposable gloves protecting against epoxy along with cotton gloves closest to the skin. Laminate (PE/EVOH) 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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance: clear yellowish liquid

Odour: Odourless.

pH: Not available.

Boiling point: Not available.

Flash point: 177°C

Explosion limits: Not available.

Relative density: 1,1

Solubility: < 1% in water

Other information

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

SAFETY DATA SHEET

Product name: EPOFIX RESIN
Revision Date: 2011-11-01
Document No.: M0025

Page: 6/9
Print date: 2011-11-11
SDS-ID: AU-EN/11.0

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Reactivity: None known.

Chemical stability

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

Possibility of hazardous reactions

Hazardous Reactions: None known.

Conditions to avoid

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

Incompatible materials

Incompatible materials: None known.

Hazardous decomposition products

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

SECTION 11: TOXICOLOGICAL INFORMATION

Information on toxicological effects

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.

SAFETY DATA SHEET

Product name: EPOFIX RESIN
Revision Date: 2011-11-01
Document No.: M0025

Page: 7/9
Print date: 2011-11-11
SDS-ID: AU-EN/11.0

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Ecotoxicity: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence and degradability

Degradability: This product is expected to be not readily 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: Not relevant.

Other adverse effects

Other adverse effects: None known.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

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.

Waste from residues: EWC-code: 16 05 08

SAFETY DATA SHEET

Product name:	EPOFIX RESIN	Page:	8/9
Revision Date:	2011-11-01	Print date:	2011-11-11
Document No.:	M0025	SDS-ID:	AU-EN/11.0

SECTION 14: TRANSPORT INFORMATION

UN number

UN-No: 3082

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

Transport hazard class(es)

Class: 9

Packing group

PG: III

Environmental hazards

Marine pollutant: No.

Environmentally Hazardous substance: Yes.

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: AICS: Listed.
As a general rule, persons under 18 years of age are not allowed to work with this product.

National regulation: National Standard: Approved criteria for classifying hazardous substances [NOHSC:1008(2004)]. 3rd Edition.
National Code of Practice for the preparation of material safety data sheets 2nd edition [NOHSC:2011(2003)].
National Exposure Standard [NOHSC:1003(1995)].
Industrial Chemicals (Notification and Assessment) Act 1989.
Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
Commission Decision 2000/532/EC as amended by Decision 2001/118/EC establishing a list of wastes and hazardous waste pursuant to Council Directive 75/442/EEC on waste and Directive 91/689/EEC on hazardous waste with amendments.

Chemical Safety Assessment

CSA status: Not relevant.

SAFETY DATA SHEET

Product name: EPOFIX RESIN
Revision Date: 2011-11-01
Document No.: M0025

Page: 9/9
Print date: 2011-11-11
SDS-ID: AU-EN/11.0

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, 3.
The (*) indicates the changes made with respect to the previous version.

Approved by DHI.

Allan Vorup

Wording of R-phrases and H-statements:

R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R43	May cause sensitisation by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
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.

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.
