

Product name:	SPECIFIX RESIN	Page:	1/9
Revision Date:	2013-11-19	Print date:	2013-11-19
Document No.:	M0073	SDS-ID:	US-EN/14.0

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

### Product identifier

Product name: SPECIFIX RESIN  
Cat. No. 40200051, 40200048, 40200049

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 A/S  
Pederstrupvej 84  
DK-2750 Ballerup  
Tel:+45 44 600 800

Responsible for material safety data sheet authoring: Responsible for material safety data sheet authoring: DHI  
safety data sheet authoring: Any questions to the contents of this material safety data sheet should be sent to:  
Lisbeth.Mygind@struers.dk

### Emergency telephone number

Emergency telephone: Infotrac:  
1-800-535-5053  
Struers US:  
1-440-871-0071

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## SECTION 2: HAZARDS IDENTIFICATION

### Classification of the substance or mixture

The product is classified:

67/548/EEC: R43 Xi;R36/38 N;R51/53  
GHS: Eye Irrit. 2;H319 - Skin Irrit. 2;H315 - Skin Sens. 1;H317 - Aquatic Chronic 2;H411  
Human health: Causes skin irritation. Causes serious eye irritation. May cause an allergic skin reaction.  
Environment: Toxic to aquatic life with long lasting effects.

### Label elements



Warning

Contains: Reaction product: bisphenol-A-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)  
Reaction product: bisphenol-F-glycidyl ether, Epoxy resin (number average molecular weight < 700)  
1,6-Hexandiol-diglycidylether

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.  
P280e Wear protective clothing, gloves, eye and face protection.  
P302/352 IF ON SKIN: Wash with plenty of soap and water.  
P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P333/313 If skin irritation or rash occurs: Get medical advice/attention.  
P337/313 If eye irritation persists: Get medical advice/attention.

NFPA Rating: Health:2 Fire:1 Reactivity:0 Other:-

### Other hazards

PBT/vPvB: Not relevant.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: epoxy resin and additives.

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## SECTION 4: FIRST AID MEASURES

### 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 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.

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.

### 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.

## 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 vapors/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: Do not 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.

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## SECTION 7: HANDLING AND STORAGE

### Precautions for safe handling

Safe handling advice: 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. Observe good chemical hygiene practices.

Technical measures: Work practice should minimize 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 oxidizing agents.

### Specific end use(s)

Specific use(s): Not relevant.

## 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, use air-supplied full-mask.

Hand protection: Wear protective gloves. Neoprene 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: Wear apron or protective clothing in case of contact.

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

### Information on basic physical and chemical properties

Appearance: Colorless-pale yellow liquid.

Odor: slight odor

pH: Not available.

Boiling point: Not available.

Flash point: 149°C

Explosion limits: Not available.

Vapor pressure: <0,01 Pa

Relative density: 1,15

Solubility: Not available.

### Other information

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

## SECTION 10: STABILITY AND REACTIVITY

### Reactivity

Reactivity: None known.

### Chemical stability

Stability: Stable under normal temperature conditions.

Curing time:

SPECIFIX-20: 8 hours

SPECIFIX-40: 3.5 hours (40-60 °C)

### Possibility of hazardous reactions

Hazardous Reactions: None known.

### Conditions to avoid

Conditions/materials to avoid: Heating. Strong oxidizing 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 vapors/gases may be formed.

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## SECTION 11: TOXICOLOGICAL INFORMATION

### Information on toxicological effects

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

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

Eye contact: Causes serious eye irritation.

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.

## 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 heavily 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 collected dust according to agreement with local authorities. Waste is classified as hazardous waste. Note that fully cured material is not considered as hazardous waste.

Waste from residues: 16 05 08

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## 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: -

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: TSCA: Listed.  
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: Europe/USA:  
This Material Safety Data Sheet has been prepared according to the EU-regulation.

### Chemical Safety Assessment

CSA status: Not relevant.

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## SECTION 16: OTHER INFORMATION

For restrictions on use see section 15.

The following sections contain revisions or new statements: -  
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:

R21/22	Harmful in contact with skin and if swallowed.
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.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
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.
H412	Harmful to aquatic life with long lasting effects.

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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 DHI - Environment and Toxicology, Agern Allé 5, DK-2970 Hørsholm, Denmark.  
[www.dhigroup.com](http://www.dhigroup.com).

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