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## 1. IDENTIFICATION

### Product identifier

Product name: PRONTOFIX RESIN  
Cat. No. 40200108, 40200109

Container size: 1 L

### Recommended use and restrictions on use

Application: For embedding and impregnation of materialographic specimens

Uses advised against: No specific uses advised against are identified. (\*)

### Details of the supplier of the safety data sheet

Supplier: Struers Ltd  
7275 West Credit Avenue  
Ontario L5N 5M9 Mississauga  
Canada  
Tel: +1 (905) 8148855

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

### Emergency telephone number

Alberta & NWT:  
Poison & Drug Information Service (PADIS): 1-800-332-1414  
British Columbia:  
Drug and Poison Information Centre (DPIC): 604-682-5050 / 1-800-567-8911  
Ontario:  
Poison Centre: 1-800-268-9017  
Québec:  
Poison Control Centre: 1-800-463-5060

Infotrac:  
1-800-535-5053  
Struers CAN:  
+1 (905) 8148855  
(Only during office hours)

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## 2. HAZARDS IDENTIFICATION

### Classification of the hazardous product

WHMIS 2015:  
Skin Irritation — Category 2  
Eye Irritation — Category 2  
Skin Sensitizer — Category 1  
Aquatic Chronic Toxicity — Category 2

### Label elements



Warning

### Contains:

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.
P101	If medical advice is needed, have product container or label at hand.
P103	Read label before use.
P261	Avoid breathing gas, fume, vapours or spray.
P272	Contaminated work clothing should not be allowed out of the workplace.
P362 + P364	Take off contaminated clothing and wash it before reuse.
P391	Collect spillage.
P501	Dispose of contents/container in accordance with local regulations.

### Other hazards

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

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Mixtures

The product contains: epoxy resin.

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## WHMIS 2015:

<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>
50-<75	1675-54-3	216-823-5	01-2119456619-26-xxxx	Bis[4-(2,3-epoxypropoxy)phenyl]propane	Skin Irritation Category 2 Eye Irritation Category 2 Skin Sensitizer Category 1 Aquatic Chronic Toxicity Category 2	
20-<25	68609-97-2	271-846-8	01-2119485289-22-xxxx	Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.	Skin Irritation Category 2 Skin Sensitizer Category 1	
20-<25	9003-36-5	500-006-8	01-2119454392-40-xxxx	Reaction product: bisphenol-F-(epichlorhydrin), epoxy resin (number average molecular weight <= 700)	Skin Irritation Category 2 Skin Sensitizer Category 1 Aquatic Chronic Toxicity Category 2	

## 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 take 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 take 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 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: Treat symptomatically.

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## 5. FIRE-FIGHTING MEASURES

### 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.

### Specific hazards arising from the hazardous product

Specific hazards: By heating and fire, irritating vapors/gases may be formed.

### Advice for fire-fighters

Protective equipment for fire-fighters: Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

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

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

### 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 items

References: For personal protection, see section 8. For waste disposal, see section 13.

## 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 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): No information available.

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## 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 relevant 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 and amines along with cotton gloves closest to the skin. 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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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Form: Liquid.

Colour: Colourless.

Odour: Characteristic.

Odour threshold: Not available.

pH: Not available.

Melting point: Not available.

Boiling point: >392°F

Flash point: >201.2°F

Evaporation rate: Not available.

Flammability (solid, gas): Not available.

Explosion limits: Not available.

Vapour pressure: Not available.

Vapour density: Not available.

Relative density: 1.09

Solubility: Not available.

Partition coefficient (n-octanol/water): Not available.

Auto-ignition temperature (°C): Not available.

Decomposition temperature (°C): Not available.

Viscosity: Dynamic viscosity: 300 - 440 mPas

Explosive properties: Not available.

Oxidising properties: Not available.

**Other information**

Other data: No information available.

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## 10. STABILITY AND REACTIVITY

### Reactivity

Reactivity: None under normal conditions.

### Chemical stability

Stability: Stable under normal temperature conditions.

### Possibility of hazardous reactions

Hazardous Reactions: Stable under normal temperature conditions.

### Conditions to avoid

Conditions/materials to avoid: No information available.

### Incompatible materials

Incompatible materials: No information available.

### Hazardous decomposition products

Hazardous decomposition products: By heating and fire, irritating vapors/gases may be formed.

## 11. TOXICOLOGICAL INFORMATION

### 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 sensitization: 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.  
National Toxicology Program (NTP): No.  
IARC Not Listed.

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 vapors may be formed.

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

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## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Ecotoxicity: Toxic to aquatic life with long lasting effects.

Bis[4-(2,3-epoxypropoxy)phenyl]propane: 1.3 (LC50 96 hours, fish, mg/l)

Reaction product: bisphenol-F-(epichlorhydrin), epoxy resin (number average molecular weight <= 700): 2.54 (LC50 96 hours, fish, mg/l)

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.: 1800 (LC50 96 hours, fish, mg/l)

### Persistence and degradability

Degradability: This product is expected to be heavily biodegradable.

### Bioaccumulative potential

Bioaccumulative potential: Bis[4-(2,3-epoxypropoxy)phenyl]propane: log Pow: 2.64 - 3.78

Reaction product: bisphenol-F-(epichlorhydrin), epoxy resin (number average molecular weight <= 700): log Pow: 3.3

Oxirane, mono[(C12-14-alkyloxy)methyl] derivs.: log Pow: 3.77

### Mobility in soil

Mobility: No data available.

### Results of PBT and vPvB assessment

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

### Other adverse effects

Other adverse effects: No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

Waste from residues: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.  
Note that fully cured material is not considered as hazardous waste.

Contaminated packaging: Dispose of waste material according to Local, State, Federal, and Provincial Environmental Regulations.

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## 14. TRANSPORT INFORMATION

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

### **UN number**

UN-No: 3082

### **UN proper shipping name**

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

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

Class: 9

### **Packing group**

PG: III

### **Environmental hazards**

Marine pollutant: Yes.

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

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## 15. REGULATORY INFORMATION

### Safety, health and environmental regulations specific to the product

Special provisions: This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.  
TSCA: All chemicals included in the product are TSCA listed.  
DSL: All chemicals included in the product are DSL listed or exempt.

National regulation: Hazardous Products Regulations, with amendments.  
Canadian Environmental Protection Act, Reporting for the Domestic Substances List (DSL), with amendments.  
Department of Justice. Canadian Environmental Protection Act 1999 (CEPA), 1999, c. 33, with amendments.  
British Columbia: Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, with amendments (2015).  
Ontario: Control of Exposure to Biological or Chemical Agents R.R.O. 1990, Reg. 833, with amendments (2016).  
Quebec: Regulation respecting the quality of the work environment, with amendments (2013-12-13).  
U.S. Department of health and human services: 2011 - Report on Carcinogens - 12th Edition.  
International Agency for Research on Cancer (IARC): IARC Monographs on the Evaluation of Carcinogenic Risks to Humans. Lyon: IARC, World Health Organization.

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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. The following sections contain revisions or new statements: 1, 8. The (\*) indicates the changes made with respect to the previous version.

Approved by DHI.



Abbreviations and acronyms used in the safety data sheet: PBT = Persistent, Bioaccumulative and Toxic.  
vPvB = very Persistent and very Bioaccumulative.

Additional information: Classification according to WHMIS 2015:  
Calculation method.

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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).