

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

 Product name:
 CITOFIX/DUROFIX LIQUID
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 Last revised date:
 2000-01-27
 Print date:
 2000-01-31

 P/N-no.:
 M1201024
 SDS-ID:
 US-D/1.0

IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

<u>Product name:</u> CITOFIX/DUROFIX LIQUID

Application: For embedding of materialographic Container size: 500 ml, 1 l

specimens

Supplier: Struers A/S

Valhøjs Allé 176 2610 Rødovre Tel: +45 3670 3500

2. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains: acrylic resin.

Chemical name: Hazard classification: CAS-No.: %: Notes: Tetrahydrofurfuryl-2-2455-24-5 60-80 Xi;R36/37/38 methacrylate 2-Hydroxypropyl 27813-02-1 20-30 Xi;R36/38 methacrylate 1,6-Hexandiol-6606-59-3 <5 Xi;R36/37/38 dimethacrylate N,N-dimethyl-p-toluidine 99-97-8 <1 T;R23/24/25 R33 R52/53

3. HAZARDS IDENTIFICATION

Man: Irritating to eyes, respiratory system and skin. Risk of sensitization or allergic reactions

among sensitive individuals.

Environment: The product contains a substance which is harmful to aquatic organisms and which may

cause long term adverse effects in the aquatic environment.

4. FIRST-AID MEASURES

<u>Inhalation:</u> 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.

Eve 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 alcohol-resistant foam, carbon dioxide, dry powder or water fog. Cool

containers exposed to heat with water spray and remove container, if no risk is involved.

Specific hazards: Remove sources of ignition. By heating and fire, irritating vapours may be formed.

Protective equipment for

fire-fighters:

Use air-supplied respirator during fire fighting.

6. ACCIDENTAL RELEASE MEASURES

<u>Personal precautions:</u> Avoid inhalation of vapours and contact with skin and eyes. For personal protection, see

point 8. Avoid smoking and use of open fire.

Environmental

precautions:

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

Methods for cleaning up:

Absorb spillage with non-combustible, absorbing material. For waste disposal, see point

13.

7. HANDLING AND STORAGE

Safe handling advice: Avoid inhalation of vapours and contact with skin and eyes. Observe good industrial

hygiene practices.

<u>Technical measures:</u> Work practice should minimise contact.

<u>Technical precautions:</u> Local exhaust is recommended.

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: Mechanical ventilation may be required. An eye wash bottle must be available at the work

site.

Respiratory equipment: In case of inadequate ventilation: Use respiratory equipment with gas filter, type A2.

Hand protection: Wear protective gloves. Laminate (PE/EVOH) gloves are recommended. Be aware that the

liquid may penetrate the gloves. Frequent change is advisable. Consult the glove supplier

to find the most suitable gloves.

Eye protection: Wear goggles/face shield.

Skin protection: 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: red liquid

Odour: characteristic
pH: not relevant

Boiling point: 178°C

Flash point: 91°C

Explosive properties: not relevant

Relative density: 1.05

Solubility: Miscible with water.

10. STABILITY AND REACTIVITY

Stability: Stable.

Conditions/

materials to avoid:

Avoid exposure to high temperatures or direct sunlight. Avoid contact with oxidizing agents.

<u>Hazardous</u> None in particular.

decomposition products:

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11. TOXICOLOGICAL INFORMATION

Inhalation: Vapours may irritate throat and respiratory system and cause coughing.

Skin contact: Irritating. Risk of sensitization or allergic reactions among sensitive individuals.

<u>Eve contact:</u> Irritating and may cause redness and pain.

Ingestion: May irritate and cause malaise.

Specific effects: May cause sensitization.

Carcinogenicity:

National Toxicology Program (NTP): No.

I.A.R.C. Monographs: No.

OSHA: No.

12. ECOLOGICAL INFORMATION

<u>Mobility:</u> The product is water soluble and may spread in water systems.

<u>Degradability:</u> The product is biodegradable.

Ecotoxicity: The product contains a substance which is harmful 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

Dispose of contaminated packings as residue.

packaging:

14. TRANSPORT INFORMATION

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

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15. REGULATORY INFORMATION

Labelling:



R36/37/38 Irritating to eyes, respiratory system and skin.

S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

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

NFPA Rating:



<u>Specific provisions:</u> TSCA: Listed.

National regulation: Europe/USA:

Frank G. Begling

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).

16. OTHER INFORMATION

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

Released: 16 March 1995 Approved by DTC.

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.

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