

Laboratory/work area: **Wet laboratory**

Activity: **Pore etching**



Epoxy resins

on the basis of Bisphenol A (component A) and hardener on amine basis (component B)
Laminate, pouring and sticking with epoxy resins and their mechanical treatment



Dangerous for humans and environment

Humans: - epoxy resins can provoke allergies (sensitization by skin contact possible).
- resin/hardener mixtures provoke eyes and skin.
- danger of serious eye damage.

Environment: Malicious for water organisms, in water for longer periods can provoke harmful effects.

General: Solutions containing epoxy resins are inflammable

Safeguard and directives



Avoid skin contacts, in addition belongs:

- Do not touch resins and hardeners with the hands;
- Soaked or contaminated clothes remove immediately;
- Never touch your mouth, nose, eyes with dirty hands;

Use safety gloves from nitrile (Ultranitril 492) und carry eye protectors;
Consider the following skin protection measures:

- Before beginning the work rub your hands and lower arms with skin protection means;
- Before breaks and at the end of the work clean your hands and lower arms with warm water and mild (not scrubbing) skin cleaning agent.
- afterwards use skin care means;
- Do not clean your skin under any circumstances with organic solvents
- Use only in well ventilated rooms
- When grinding hardened resins suck off the dust; carry a respiratory protection mask in case of short working periods not under an extraction system;
- Closely lock the containers after the withdrawal of the resin and/or the hardener.
- Do not let the resins to reach the drains, waters or soil;
- On the working place do not smoke, eat, drink and do not store food.

Fire department 0/112

Behavior in the case of danger

Emergency 0/19222

Fire extinguishing agent: Powder or water; during fire poisonous gases and/or-injurious to health gases such as carbon monoxide, carbon dioxide and nitroses can form

If the exhaust system failed, interrupt the work immediately;

Leakage: In case of resin spillage take it up with sand and/or bonding agents and dispose in special container.

First assistance : (J. Bahr, Tel.: 6183):



- **Eyes:** Rinse immediately with flowing water at least 15 min. Consult a doctor
- **Skin:** Rinse off immediately with much water and soap. If irritations arise for longer periods, consult a doctor!
- **Inhalation:** Bring the hurt person to fresh air and call a doctor.
- **Swallow:** Do not cause vomiting. Drink water in small sips. Consult a doctor.

Adequate disposal

Dispose remainders and empty bundles as special refuse (contact: Kai Rath).

Signature of the responsible person: