

Laboratory/work area: **Wet laboratory**

Activity: **Pore etching**



Acetone

CAS NR. 67-64-1; clear, colorless, water-mixable liquid with a sweet smell. Very volatile. Limit value in air of the working place (MAK): 1200 mg/m³ and/or. 500 ml/m³ (ppm).

Note: For decanting from large binders see the specially written for this purpose operating instruction.



Dangerous for humans and environment

Easily inflammable: Starting with temperatures from minus -20°C (flash point) inflammable and combustible steam-air mixtures start to develop, which can be brought to ignition and/or explosion by diverse ignition sources (open flames, switching sparks of electrical devices, electrostatic unloading sparks, hot surfaces starting from ignition temperature 540°C).

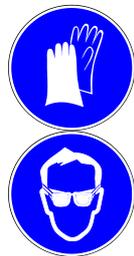
Stems more heavily than air, flow from open containers to floor!

The liquid is electrostatically rechargeable. Reacts with strong oxidizing agents and/or fire-promoting materials, resulting in combustible peroxides. Violent reaction with chloroform in basic environment. For additional dangerous reactions see safety data sheet. Different natural and synthetic resins, oils, fats and softener can be dissolved. Increased fire risk is possible for saturated materials (cleaning cloths, clothes, etc.)!

Swallowing can lead to serious health damages. Stems affects/stimulate the respiratory system and eyes. After inhalation dizziness, headache can appear, whereas at high concentrations also drug effects are possible. At degreasing procedures and frequent contacts, skin damage is possible. Splashes in the eye can cause heavy cornea damages!

Safeguard and directives

Use only in well ventilated places, keep away any ignition source, do not smoke. Perform any long activities and/or activities during which stems in dangerous concentrations are formed, in the hood or under an air extraction system. Keep closely closed both: full as well as empty container/reservoirs. Keep on the working place only for one day required amounts, and/or limit it to one containers/bottle; Keep larger quantities in a safety cabinet or suitable stockrooms. Put it in refrigerator/deep-freeze only if interior is explosion-proofed ("GUV 16.17). Do not put dimly/humid cloths in the normal re-use/garbage, put them at well ventilated places to dry before disposal (e.g. in open places, in the hood) and collect in self-closing metal containers. Equip the work space with eye emergency showers or bottles with sterile washing solution.



Avoid body contacts and use the following protection equipment:

Eye protection: Use closely closed eye protectors (basket eye-glasses), also use visibility improving glasses if necessary!

Hands protection : One mark nitril gloves are suitable against spraying, as long as they are immediately changed in case of substance contact.

Breathing protection: Small quantities are not essential when working under a hood, air extracting system or at short term activities. For longer working periods and open handling a protective mask or a gas filter AX is required.

Skin protection: Use regularly skin care means.





Spillage: Fire and danger of explosion, inflammable steams deposit themselves at the ground level! Immediately cover the place with a chemical binder, eliminate any ignition sources, extinguish every open flames, disconnect the room from the electrical supply (e.g. use electrical emergency stop, safety devices at laboratory lines, fuse boxes from outside the room), do not switch on electrical devices in the danger area and do not pull the plugs (ignition sparks!), provide an extensive ventilation of the room. Collect all used chemical binders in closely lockable metal containers and dispose as special refuse.

If larger quantities are released, persists the danger that the allowed limit values are excided: therefore carry a respiratory protection mask with an AX gas filter.

Fire extinguishing agent: Use any available fire extinguisher.

First assistance

First assiatnt: (Jörg Bahr, Tel.: 6183):



After eye contact: Rinse immediately minimum 10 min under flowing water with eyelid open and protected intact eye. Call an oculist and/or the emergency!

After skin contact: Rinse off with much water and soap.

After inhalation: Fresh air; in case of complains visit a doctor and/or call the emergency.

After swallowing: Do not cause vomiting, aspiration danger. Immediately use plentifully of water. Immediately call a doctor or the emergency!

After clothes contact: Remove immediately all moistened clothes, fire risk! Pay attention to skin contact.

Adequate disposal

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

Signature of the responsible person:
