



PATIENT INFORMATION LEAFLET: epoxy resin

Your patch test shows that you have a contact allergy to : epoxy resin

Synonym(s): epoxy glue, diglycidylether of bisphenol A (DGEBA), and bisphenol A-resin.

Definition: Epoxy resin is a plastic chemical used in glues and paints. The products mostly comprise two components, epoxy resin and its hardener. These two-component chemical formulations are mixed together just before use. After mixing the product will harden. In the electrical industry, one-component heat-cured epoxy products can be used. An epoxy-allergic person usually develops skin symptoms from uncured epoxy products only.

Mixing the two components increases the temperature, which may cause evaporation of epoxy resin into the air. Epoxy resin may also become airborne in spray-painting, powder-coating or sanding epoxy coated surfaces. Airborne epoxy resin may cause rash especially on face and eyelids.

Fully hardened epoxy coating, glue or other epoxy product does not cause rash.

Use and occurrence:

Below is a list of products in which epoxy resin may be included. It can be used as a guideline for determining which products are potentially harmful and which you are to be extra careful with. Products containing more than 1% epoxy resin must be labelled.

Please note that the substances are not included in all variants of the products on the list.

Examples of products/manufacture in which epoxy resin may occur:

- Two-component paints & coatings for metal surfaces in the metal and shipbuilding industries
- Two-component paints for cement & concrete surfaces, floor coatings and sewage pipe coatings in the construction industry
- Seaming and bedding materials for tile setting
- Injection resins for concrete crack repair and repair tile setting
- Boat paints
- Two-component glues
- Casting resins that are hardened by heating and insulation tapes in the electric and electronics industries
- Resins for fiberglass production
- Lamination and so called prepreg composite materials in the manufacture of reinforced plastic products
- In some 3D-printing materials
- In some hairpins
- Immersion oil



- **In the labelling and Material Safety Data Sheets of chemicals epoxy resin is marked with CAS-** number 25068-38-6. Other possible CAS numbers are 1675-54-3, 25085-99-8, 40216-08-8 and 9003-36-5. In addition, bisphenol F-based epoxy resin cross-reacts with bisphenol A epoxy resin (CAS 28064-14-4, 39817-09-9 and 87110-08-8).

- **Nail polishes do not cause allergic symptoms** even if the ingredients list mentions tosylamide/epoxy resin.

Disclaimer: Always check your products as these lists can never be complete and ingredients change.