

# EPOXY

\_\_\_\_\_ Name

\_\_\_\_\_ Date

also called...diglycidyl ether of bisphenol A, Bisphenol A, DGEBA epoxy resin, phenol novolate epoxy resin, Bisphenol F, or epichlorohydrin.

## What is it?

Epoxy resins are man-made chemicals for producing glues and plastics. Usually they require two parts—a monomer unit that becomes cross-linked when a hardener is added. For most epoxies, epichlorohydrin is mixed with bisphenol A. Once it is hardened, epoxy is less likely to produce allergy. Sometimes, however, cured resin retains uncured molecules that produce a reaction.

### Where might it be found?

Adhesives, glues, sealers  
Aircraft assembly, adhesives  
Anticorrosion protection (e.g. oil drilling platform)  
Appliance primers, finishes  
Artist, potter, sculptor materials  
Auto tool and dye casting  
Automobile plastics, primers  
Bikes  
Boat varnish, protective coats  
Bookbinding  
Bottle caps  
Cabinetmaking  
Can and drum linings  
Cement waterproofing  
Circuit board assembly  
Coil coatings  
Concrete crack filler  
Construction work  
Dental bonding agents  
Electric encapsulators, motors  
Electrical condensers, devices  
Electrical insulation, tape  
Electron microscopy prep  
Eyeglass frames  
Fiberglass manufacture, repair  
Fiberoptic assembly  
Film cassettes  
Fishing rod manufacture  
Flooring material, glue, sealer  
Golf clubs, golf balls  
Handbags, purses  
Hemodialysis equipment, cath  
Hockey stick assembly

“Jelly” shoes  
Laminates, plastic molding  
Medical lab adhesive  
Metal corrosion protection  
Microscopy immersion oil  
Nail polish  
Nasal cannula  
Pacemakers  
Paints, printing inks  
Plastic bracelets, necklaces, panties, shoes  
Plasticizer, industrial  
Protective coating, e.g. tent fabric, knee patch  
PVC products  
Shoemaking, bonded leather  
Ski, ski pole, snowboard manufacture  
Surface coatings, e.g. bridges  
Synthetic asphalt  
Tennis racket manufacture  
Textile flame retardant  
Vinyl gloves  
Wall & floor protective coating  
Waterproofing  
Wind turbine rotor blade production

### How to avoid it:

If possible, substitute a non-epoxy resin glue, high molecular weight epoxy adhesive, or one-bag epoxy product that mixes in the package. Do not touch uncured epoxy. To protect your hands from epoxy, wear **4H/Silvershield Gloves** ([www.allerderm.com](http://www.allerderm.com) 800-365-6868 or [www.northsafety.com](http://www.northsafety.com) 800-430-4110) or **Barrier Chemical Protective Gloves** ([www.ansellpro.com](http://www.ansellpro.com) 800-800-0444). Avoid breathing epoxy fumes. **Warn your dentist you are allergic to epoxy resin!**