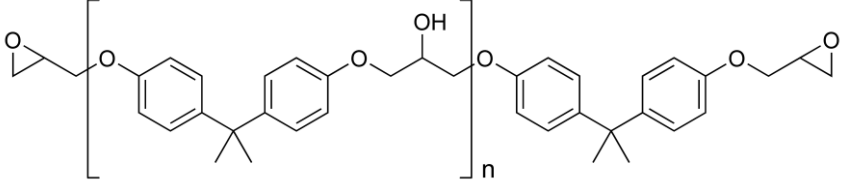
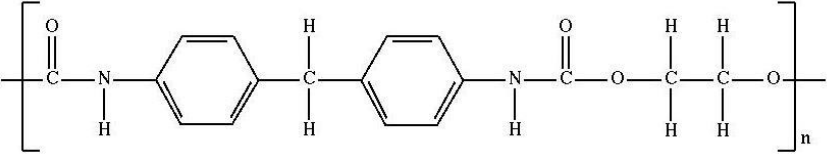
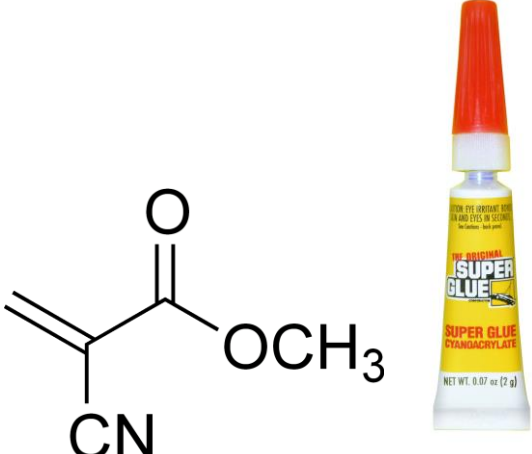


# SYNTHETIC GLUES

Elastomers, Thermoplastics, Emulsion, and Thermosetting adhesives are based on polyvinyl acetate, epoxy, polyurethane, cyanoacrylate and acrylic polymers.

NAME	STRUCTURE	SAFETY ISSUES
POLYVINAL ACETATE	$R - \left[ \begin{array}{c} \text{CH}_2 - \text{CH} \\   \\ \text{O} \\   \\ \text{COCH}_3 \end{array} \right]_n - \left[ \begin{array}{c} \text{CH} - \text{CH}_2 \\   \\ \text{O} \\   \\ \text{COCH}_3 \end{array} \right]_n R$	May cause eye, skin and respiratory irritation and it maybe harmful when swallowed.
EPOXY		Causes asthma
POLYURETHANE		Inert, but when decomposes forms nasty chemicals such as hydrogen cyanide, which is a highly toxic compound.
CYANOACRYLATE		The fumes will irritate sensitive membranes in the eyes, nose and throat. About 5% of the population can become sensitized to cyanoacrylate fumes after repeated exposure, resulting in flu-like symptoms. It may also act as a skin irritant and may cause an allergic skin reaction.