

Table 7
Common Peroxide Forming Chemicals

List A: Severe Peroxide Hazard on Storage with Exposure to Air

Discard within 3 months

Diisopropyl ether (isopropyl ether)	Potassium amide
Divinylacetylene (DVA)	Sodium amide (sodamide)
Potassium metal	Vinylidene chloride (1, 1-di-chloroethylene)

List B: Peroxide Hazard on Concentration

*Do not distill or evaporate without first testing for the presence of peroxides.
Discard or test for peroxides after 6 months*

Acetaldehyde diethyl acetal (acetal)	Ethylene glycol dimethyl ether (glyme)
Cumene (isopropyl benzene)	Ethylene glycol ether acetates
Cyclohexene	Ethylene glycol monoethers (cellosolves)
Cyclopentene	Furan
Decalin (decahydronaphthalene)	Methylacetylene
Diacetylene (butadiene)	Methylcyclopentane
Diethyl ether (ether)	Tetrahydrofuran (THF)
Diethylene glycol dimethyl ether (diglyme)	Tetralin (tetrahydronaphthalene)
Dioxane	Vinyl ethers

List C: Hazard of Rapid Polymerization Initiated by Internally Formed Peroxides

*Normal Liquids
Discard or test for peroxides after 6 months*

Chloroprene (2-chloro-1, 3-butadiene)	Vinyl acetate
Styrene	Vinylpyridine

*Normal Gases
Discard after 12 months*

Butadiene	Vinylacetylene (MVA)
Tetrafluoroethylene (TFE)	Vinyl chloride

