

## TIME SENSITIVE MATERIALS

1. Chemicals that form explosive levels of peroxides without concentration by evaporation or distillation. Some of these may form explosive concentrations of peroxide even if never opened. **These chemicals must be disposed of within 3 months of being opened.**

Butadiene <sup>a</sup>	Isopropyl ether <sup>a</sup>	Tetrafluoroethylene
Chloroprene <sup>a</sup>	Potassium Metal	Vinylidene chloride
Divinylacetylene	Sodium amide	

2. Chemicals that may autopolymerize as a result of peroxide accumulation.  
**Uninhibited chemicals must be disposed of within 24 hours of being opened.**  
**Inhibited chemicals must be disposed of within 12 months of being opened.**

Acrylic acid <sup>b</sup>	Tetrafluoroethylene <sup>c</sup>
Acrylonitrile <sup>b</sup>	Vinyl acetate
Butadiene <sup>c</sup>	Vinyl acetylene
Chloroprene <sup>c</sup>	Vinyl chloride
Chlorotrifluoroethylene	Vinyl pyridine
Methyl Methacrylate <sup>b</sup>	Vinylidene chloride
Styrene	

3. Chemicals that form explosive levels of peroxides on concentration by evaporation or distillation or otherwise treated to concentrate the peroxides.  
**These peroxide formers that must be disposed of within 12 months of being opened.**

(2-Ethoxyethyl)-o-benzoyl benzoate	1, 3, 3-Trimethoxypropene	2-Methoxy ethanol
> 80% Hydrogen Peroxide	1-Ethoxynaphthalene	2-Methoxyethyl vinyl ether
§ - Bromophenetole	1-Ethoxy-2-propyne	2-Methyltetrahydrofuran
§ - Chlorophenetole	1-Phenylethanol	2-Penten-1-ol
1 - Pentene	2, 2-Diethoxypropane	2-Phenylethanol
1-(2-Chloroethoxy)-2-Phenoxyethane	2, 4-Dichlorophenetole	2-Propanol
1-(2-Ethoxyethoxyethyl)ethyl acetate	2, 4 Dinitrophenetole	3-Ethoxy-o-propionitrile
1, 1-Dimethoxymethane	2, 5 Hexadiyn-1-ol	3, 3-Dimethoxypropene
1, 2-Bis(2-chloroethoxy) ethane	2-Bromomethyl ethyl ether	3-Bromopropyl phenyl ether
1, 2-Dibenzoyloxyethane	2-Butane	3-Isopropoxypropionitrile <sup>d</sup>
1, 2-Dichloroethyl ethyl ether	2-Chlorobutadiene	3-Methoxy ethyl acetate
1, 2-Diethoxyethane	2-Cyclohexen-1-ol	3-Methoxy-1-butyl acetate
1, 2-Epoxy-3-isopropoxypropane	2-Ethoxyethyl acetate	4-Heptanol
1, 2-Epoxy-3-phenoxypropane	2-Ethylacrylaldehyde oxime	4, 5-Hexadien-2-yn-1-ol
1, 3-Dioxepne	2-Ethylbutanol	4-Methyl-2-pentanol
1, 5-p-Methadiene	2-Ethylhexanal	4-Methyl-2-pentanone
1, 3 Butadiyne	2-Hexanol	4-Penten-1-ol

4-Vinyl Cyclohexene	Cyclopropyl methyl ether	m-Nitrophenetole 1-Octene
Acetal	Decahydronaphtalene	n-Amyl ether
Acetaldehyde	Di(1-propynyl) ether <sup>f</sup>	n-Butyl phenyl ether
Acrolein	Di(2-propynyl) ether	n-Butyl vinyl ether
Allyl ether	Diacetylene	n-Hexyl ether
Allyl ethyl ether	Diallyl ether	n-Methylphenetole
Allyl phenyl ether	Dicyclopentadiene	n-Propylisopropyl ether
a-Phenoxypropionitrile chloride	Diethoxymethane	o, p-Ethoxyphenyl isocyanate
B,B Oxdipropionitrile	Diethyl acetal isoamyl benzyl ether	o,p-Iodophenetole
Benzyl 1-naphthyl ether	Diethyl ether	o-Bromophenetole
Benzyl alcohol	Diethyl ethoxymethylene malonate	o-Chlorophenetole
Benzyl ether	Diethyl fumarated	Other Secondary Alcohols
Benzyl ethyl ether	Diethylene glycoldimethyl ether	Oxy bis (2 ethyl acetate)
Benzyl methyl ether	Diethylketene <sup>f</sup>	Oxy bis (2-ethyl benzoate)
Benzyl n-butyl ether	Dimethoxymethane	p-(n-Amyloxy)benzoyl chloride
Bis(2-chloroethyl) ether	Dimethylketene <sup>f</sup>	p-Bromophenetole
Bis(2-ethoxyethyl) ether	Di-n-propoxymethane	p-Chlorophenetole
Bis(2-ethoxyethyl) phthalate	Dioxanes	p-Dibenzloxybenzene
Bis(2-methoxyethyl) adipate	Ethoxyacetophenone	p-Di-n-butoxybenzene
Bis(2-methoxyethyl) carbonate	Ethyl $\delta$ -ethoxypropionate	Perchloric Acid
Bis(2-methoxyethyl) ether	Ethyl Vinyl Ether	Phenoxy acetyl chloride
Bis(2-methoxyethyl phthalate	Ethylene glycol dimethyl ether (glyme)	Phenyl o-propyl ether
Bis(2-methoxymethyl) adipate	Furan p-Phenylphenetone	p-Phenylphenetone
Bis(2-n-butoxyethyl) phthalate	Isoamyl benzyl ether	Sodium 8, 11, 14 elcosate traenoate
Bis(2-phenoxyethyl) ether	Isoamyl ether	Sodium ethoxyacetylde
Bis(chloromethyl) ether <sup>c</sup>	Isobutyl vinyl ether	Tert-Butyl ethyl ether
Bis[2-(methoxyethoxy) ethyl] ether	Isopropy 1, 2, 4, 5 trichlorophenoxyacetate	Tert-Butyl methyl ether
B-methoxypropionitrile	1, 1, 2, 3 -Tetrachloro-1, 3-butadiene	Tetrahydrofuran (THF)
Bis(4-chlorobutyl) ether	Limonene	Tetrahydronaphtalene
Buten-3-yne	Isophorone	Tetrahydropyran
Chloroacetadehydediethyl acetal	m, o, p-Diethoxybenzene	Triethylene glycol diacetate
Chloromethyl methyl ether <sup>e</sup>	Methoxy-1, 3, 5, 7-cyclooctateraene	Trithylene glycol dipropionate
Chloromethylene	Methyl isobutyl ketone	Vinyl ethers
Cumene	Methyl p-(n-amlyoxy) benzoate	Vinylene carbonate
Cyclohexanol	Methyl-1-butanol	Vinylidene chloride
Cyclohexene	Methylacetylene	
Cyclooctane	Methylcyclopentane	

Key to superscripts in above tables:

- a. When stored as a liquid monomer
- b. Although these chemicals form peroxides, no explosion involving these monomers have been reported.
- c. When stored in liquid form, these chemicals form explosive levels of peroxides without concentration. They may also be stored as a gas in gas cylinders. When stored as a gas, these chemicals may auto- polymerize as a result of peroxide accumulation.
- e. OSHA regulated carcinogen.
- f. Extremely reactive and unstable compounds.