


A number of organic chemicals may form unstable and dangerous peroxide compounds when stored for extended time and left unchecked. Such chemicals pose a significant hazard as they can be explosive if heated or subjected to mechanical shock. Typically, the more concentrated a peroxide forming compound is (i.e. concentrated solutions after undergoing evaporation or distillation) the greater

<ol style="list-style-type: none"><li>3. Benzyl alcohol</li><li>4. 2-Butanol</li><li>5. Cumene</li><li>6. Cyclohexanol</li><li>7. Cyclohexene</li><li>8. 2-cyclohexen-1-ol</li><li>9. Decahydronaphthalene</li><li>10. Diacetylene</li><li>11. Dicyclopentadiene</li><li>12. Diethyl ether (ether)</li><li>13. Diglyme</li><li>14. Dioxane</li><li>15. Glyme</li><li>16. Furan</li><li>17. 4-Heptanol</li><li>18. 2-Hexanol</li><li>19. Methyl acetylene</li><li>20. 3-Methyl-1-butanol</li><li>21. Methyl cyclopentane</li><li>22. Methyl isobutyl ketone</li><li>23. 2-Methyl-2-pentanol</li><li>24. 2-Pentanol</li><li>25. 4-Penten-1-ol</li><li>26. 1-Phenylethanol</li><li>27. 2-Phenylethanol</li><li>28. 2-Propanol</li><li>29. Tetrahydrofuran</li><li>30. Tetrahydronaphthalene</li><li>31. Vinyl ethers</li><li>32. Other secondary alcohols</li></ol>	<p>Testing:</p> <ul style="list-style-type: none"><li>A. Every 6 months</li><li>B. Discard after 1 year</li></ul> <p>Important: Consult manufacturers SDS when using these chemicals</p>
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**List C – Hazard due to Peroxide Initiation of Polymerisation (Extremely shock and heat sensitive)**

Highly reactive and can auto-polymerize as a result of internal peroxide accumulation. The peroxides formed in these reactions are highly shock and heat sensitive

## List D – Potential Peroxide formers

The following		any of the
above 3 categories:		
<ol style="list-style-type: none"><li>1. Acrolein</li><li>2. Allyl ether</li><li>3. Allyl ethyl ether</li><li>4. Allyl phenyl ether</li><li>5. p-(n-Amyloxy)benzoyl chloride</li><li>6. n-Amyl ether</li><li>7. Benzyl n-butyl ether</li><li>8. Benzyl ether</li><li>9. Benzyl ethyl ether</li><li>10. Benzyl methyl ether</li><li>11. Benzyl 1-naphthyl ether</li></ol>		

**This chemical forms peroxides during storage thus limiting its shelf life. Test or dispose \_\_\_\_ months after opened.**

Date Received \_\_\_\_\_ Date Tested \_\_\_\_\_  
Date First Opened \_\_\_\_\_ Test Results \_\_\_\_\_  
Dispose By (date) \_\_\_\_\_

**Warning: Peroxide-Forming Chemical**

Please ensure you do the following;

1. This chemical must be stored in its original container, with the lid tightly closed.
2. Ensure that in storage this chemical has minimal exposure to light, air, and heat.
3. If crystals, discoloration, or layering are visible do not move or open container
4. Refer to manufacturers SDS or CHEMALERT for further information
5. For disposal, please contact the UNSW HS unit

**Check for peroxides before distilling or concentrating.**

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