

## Guidance on How to Label, Test, and Dispose of Peroxide-Forming Chemicals

**For your own safety and that of your colleagues, peroxide-forming compounds in your lab must be properly identified, tested, and disposed. Follow these steps:**

### Pre-inspection:

**Note:** Do not open or disturb containers of peroxide-forming compounds showing the following:

- signs of peroxide crystal formation
- signs of leakage
- exceedance of shelf life or unknown age
- no evidence of labeling and testing

### Labeling:

Peroxide forming chemicals shall be properly identified. Labels can be requested from EHS.

**Note:** Don't cover vendor labels when applying peroxide test labels. Small labels are available.

WARNING			
<b>May Form Explosive Peroxides</b>			
Store, handle, and dispose per LBNL controls for Organic Peroxide-Forming Compounds. If crystals, discoloration, or layering are visible, do not open. Contact your Health and Safety Representative immediately for evaluation.			
Date Received _____	Date Opened _____	Testing Interval _____ (months)	
<b>Peroxide Test Results</b>			
If result is $\geq 30$ ppm, do not evaporate or concentrate. If $>100$ ppm, do not use.			
Date _____	Result _____	Date _____	Result _____
Date _____	Result _____	Date _____	Result _____
Date _____	Result _____	Date _____	Result _____

WARNING	
<b>May Form Explosive Peroxides</b>	
See Time-Sensitive Chemical Log	

### Testing:

- For peroxide testing procedures, refer to this [Quick Guide](#) or [Work Process P, Section 9](#).
- Peroxide testing strips can be requested from [here](#).

### Disposal:

- If the peroxide concentration is  $\geq 20$  ppm, contact your [Waste Generator Assistant](#) for guidance.
- Consult the [Waste Management Peroxide-Forming Chemical Test List](#) to determine which peroxide-forming chemicals require testing prior to disposal.

### Searching peroxide-forming chemicals on [CMS.lbl.gov](https://cms.lbl.gov)

- Inventory Management → Container Search → Click the button for “Advanced Search” → enter Location or Owner and select “Peroxide Formers (LBNL)” from Hazard Category field OR
- Reports → Hazard Report → Enter “Peroxide Formers” in Hazard Category” and Building (+ Room or owner)

Contact your Division Safety Coordinator/Technician or Division Health & Safety Representative if you have any questions.