

PEROXIDE FORMER HANDLING

A. Peroxide Forming Liquids, Stabilization of lab pack quantities.

Condition of Material/Scenario:

Peroxide formation may be present anywhere in the container, including the side of the container, the bottom of the container, the threaded cap, or even outside the container. Peroxide formation in ppm concentrations may not be visually observable and must be identified through appropriate testing procedures. If any of the following conditions exist the compound may be explosively unstable and will require stabilization prior to transportation.

- A. Material appears to be degraded/contaminated.
- B. Material appears to be discolored.
- C. Deterioration or distortion of storage container.
- D. Gross contamination.
- E. Thermal shock. (Sunlight)
- F. Oxidation on exterior of container.
- G. Age of material exceeds recommended storage time.

Hazard Analysis:

Peroxides are less volatile than solvent and tend to concentrate in solution or in the container threads. Experiments have determined that a percentage of 0.008% (80ppm) or more is enough to initiate explosive decomposition. Peroxides are sensitive to heat, friction and shock. Some peroxides may explode without being concentrated. (Example: Isopropyl Ether)

Safe Distances:

If material is improperly handled there is a potential for a reaction, which include fire and/or deflagration. Remote opening of lab pack quantities require 50 ft safe distance.

Basic Equipment Overview:

- A. Day box.
- B. Blast Deflection Unit with remote opening equipment
- C. Stabilization Kit.
- D. Fire extinguisher (ABC)
- E. Eyewash/First-aid kit
- F. Stabilization jars.
- G. Peroxide test strips

Scope of Work:

Removal of the peroxide forming liquid to the exclusion zone. Work signs and danger tape will delineate this area. All work on peroxidizable compounds will be performed in this area. **ABSOLUTELY NO UNAUTHORIZED ENTRY** into the exclusion zone.

A. To move and open peroxidizable material:

1. Secure work area and transportation route
2. Ground trailer/blast deflection unit.
3. Check fire suppression system.
4. Remove chemical from storage area via remote arm.
5. Secure chemical in day box via remote arm and transport to remote opener in closed day box.
6. Secure wrist-grounding strap to technician prior to removing chemical from day box.
7. Secure chemical in remote opener via remote arm.
8. Open container in remote opener.

B. Peroxide destruction procedure:

1. Ensure the peroxide test strips have not exceeded their expiration date.
2. Test liquid by submersing peroxide strip into peroxide forming material.
3. Submerge strip into Deionized water, wait five seconds and record results.
4. If no peroxides are detected, re-inhibit material to prevent any future peroxide formation.
5. If any peroxides are present, destroy them by following Clean Harbors protocol for the destruction of peroxides. Extreme caution is taken since the reaction may be vigorous if high peroxide concentrations are present.
6. Retest liquid with peroxide test strip. If peroxides are still present then repeat stabilization process. When no peroxides are detected add inhibitor to prevent future peroxide formation.

Legal Notices

325 AYER RD.

**LEGAL NOTICE
COMMONWEALTH OF
MASSACHUSETTS
DEPARTMENT OF
ENVIRONMENTAL PROTECTION
NOTICE**

PUBLIC NOTICE IS HEREBY GIVEN OF A HAZARDOUS WASTE MANAGEMENT FACILITY TEMPORARY LICENSE FOR TREATMENT OF HAZARDOUS WASTE PURSUANT TO 910 CMR 30.001.

FACILITY ID NUMBER: R000502682

THE FACILITY AND TEMPORARY LICENSE

ENSR International (ENSI) operates a facility as a Very Small Quantity Generator of hazardous waste at 325 Ayer Road, in Harvard, MA.

It recently applied to the Department for a temporary license for the on-site treatment of 1 (one) container of potentially unstable compounds.

The company has contracted Clean Harbors Environmental Services, Inc. (CHES) to perform this project. CHES specialists shall perform the stabilization procedure to provide for the safe transportation and disposal of the hazardous waste container.

ENSI is not authorized to treat hazardous waste. Therefore, the Department is issuing a temporary license for the company effective November 14, 2005, for a 90 day period that will enable CHES specialists to perform a one time on-site treatment pursuant to procedures as set forth in the documentation enclosed with the license application.

Any person wishing to review the temporary license and other pertinent data may do so by visiting or calling:

Anna Stern
Department of Environmental Protection
Business Compliance Division
One Winter Street
Boston, MA 02108
(617) 292-5904

AD#10987438
Harvard Post 12/2/05

**28 POWDER HILL RD.
LEGAL NOTICE
Public Hearing**

The Board of Appeals will hold a public hearing on Tuesday, December 20, 2005 at 7:30pm in the Town Hall, Bolton, to act upon the application of Holly E. Plante, Trustee of 28 Powder Hill Road Realty Trust, seeking a variance to provide relief from the provision of Zoning Bylaw 2.3.5.2 that requires a minimum 20 foot rear yard and side yard setback on residential lots. The property is located at 28 Powder Hill Road.

The applications and plans are available for review at the Town Clerk's Office in the Town Hall during the following times: Monday, Wednesday, and Thursday from 9am - 2:30pm; and Tuesday from 9:00am - 4:30pm and 6pm - 8pm.

Any person interested or wishing to be heard on the proposed application should appear at the time and place designated.

AD#10934197
Bolton Common 12/2, 12/9/05