



Organic Peroxide Producers Safety Division

The Society of the Plastics Industry, Inc.
1667 K Street, NW, Suite 1000
Washington, DC 20006-1620

Disposal of Liquid Organic Peroxides

All organic peroxides are, by definition, unstable. Products requiring refrigerated storage are, in particular, unstable under ambient condition. For this reason, any material that is out of date or off-spec and cannot be reclaimed may be considered hazardous waste. Such material should be stored, treated or disposed of only by authorized facilities.

Dilution and incineration

Dilution and incineration are the recommended disposal methods for small quantities of both refrigerated and ambient storage organic peroxides. Due to current environmental regulations, this method has become the preferred method of liquid organic peroxide disposal.

Dilution of organic peroxide to less than 1% active oxygen, or less than 10% by weight (whichever is lower) in a satisfactory solvent is recommended by The Organic Peroxide Producers Safety Division (OPPSD). Fuel oil #2 or common hydrocarbons (which are readily soluble with organic peroxides) are the most widely used solvents.

Incineration can be accomplished after satisfactory mixing. The solvent should be the same temperature as the organic peroxide being diluted. There will be negligible heat contribution from the organic peroxide portion of the solution.

This method is NOT generally accepted for disposal of solid organic peroxides. Solid organic peroxides should be disposed of "as is" or as water wet mixtures.

Incineration has the advantage of providing rapid and complete decomposition along with the elimination of decomposition products. Direct incineration is an accepted means of disposal for all organic peroxides and is often the preferred method for large quantities.

Disposal must comply with Federal, State and Local regulations.

For specific disposal recommendations for MEKP – see OPPSD Recommended Disposal of MEKP.

As in all cases involving safety issues, contact your organic peroxide supplier if you need assistance or have questions.

SPI/OPPSD makes no representation or warranties concerning the above information. This bulletin is being offered in an advisory capacity and is not to be used in lieu of any federal, state, local or quasi-public statute, regulation, ordinance or standard. Further, SPI makes no warranty, expressed or implied, regarding the use of any product.

Revised June, 2005