

Organic Peroxide Producers Safety Division (OPPSD) Disposal of Solid Organic Peroxides

This guidance is NOT intended for disposal of liquid organic peroxides. Liquid organic peroxides should be disposed of “as is” or as diluted mixtures. Please review the separate guidance for disposal of liquid organic peroxides if appropriate found on the OPPSD website ([link](#)).

All organic peroxides are intended to be unstable. Products requiring temperature-controlled storage are unstable at ambient temperature. Some organic peroxides may also be flammable. For this reason, any material that is beyond the shelf life 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.

Safe Handling of Organic Peroxides

Some organic peroxides when dried or aged may become shock-sensitive. Several solid organic peroxides when dried can generate flammable dust that could lead to an explosion hazard. Care must be considered when handling these materials.

Incinerations and Wetting

Unlike liquid organic peroxides, dilution is not generally accepted for disposal of solid organic peroxides. Due to solubility limitations, incineration “as is” or as a “water-wet” slurry is the recommended disposal method for solid organic peroxides.

Some solid organic peroxides can be made safer by blending with certain inert solids. Please consult with the manufacturer of the particular organic peroxides for specifics.

Incineration is the recommended disposal method for small quantities of both refrigerated and ambient storage solid organic peroxides. Due to current environmental regulations, this has become the preferred method of organic peroxide disposal.

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.

As in all cases involving safety issues, contact your organic peroxide supplier or PLASTICS for assistance or with questions.

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