

## PAINT BOOTH FILTERS

This fact sheet summarizes the requirements of hazardous waste regulations under the Resource Conservation and Recovery Act (RCRA).

RCRA requires businesses to perform a waste determination on all wastes generated to determine whether or not each is a hazardous waste. This can be done by laboratory analysis or by using "generator's knowledge". However, "generator's knowledge" is accepted only when sufficient data is available to appropriately support such a conclusion. Also, whenever "generator's knowledge" is used, a written statement that identifies the waste as hazardous or non-hazardous, and the data used, should be kept.

In a paint booth, the filter acts as an absorbent of paint overspray. Also, paint booth filters are often used to absorb waste solvent from the cleaning out of spray gun equipment. As such, the filters become contaminated with paint and/or spent solvents.

There are three ways paint booth filters can be hazardous when disposed. They can be ignitable, contain regulated concentrations of toxic heavy metals, and/or they may become contaminated with an F-listed spent solvent.

Spent filters that are still "wet" are potentially hazardous for the characteristic of Ignitability (flash point < 140 F). However, if they are allowed to dry thoroughly prior to disposal, they are generally no longer ignitable.

Depending on the type of paints used, the potential also exists for the spent filter to be hazardous for one or more toxic RCRA metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver). In order to properly determine whether your waste filters are hazardous for these metals, first obtain <u>current Material Safety Data Sheets (MSDS's)</u> on all paints you use. You can get these from your paint supplier. Determine which, if any, of the eight RCRA metals are listed as ingredients in each paint. Lead, barium, chromium, and cadmium are the most common. Be aware that the actual metal may be listed alone or as a part of another compound.

FOR EXAMPLE: 'lead chromate' contains lead and chromium

'barium sulfate' contains barium

Page 2 Paint Filter SOP 5/2003

Next, the paint booth filters should be analyzed for each of the RCRA metals contained in your paints to determine if they are at levels above the RCRA regulatory limit. If so, the filters are hazardous for the characteristic of Toxicity. The test required is the Toxicity Characteristic Leaching Procedure (TCLP). However, the 'Totals' test method may be used initially for screening purposes. Also, please note that a laboratory with a DOH (Department of Health) approved National Environmental Laboratory Accreditation Program (NELAP) should be used (list available from EPC).

It is also possible for paint filters to be considered F-listed hazardous waste. When cleaning the spray gun, if the spent solvent is sprayed out in such a way that it comes into contact with the filters, those filters may become F-listed hazardous waste, depending on the solvent(s) used. MSDS's can also be used to determine the ingredients of the solvents you use. If the solvent is listed under F001, F002, F004, or F005 on the F-list in RCRA, anything the spent solvent contaminates may be considered hazardous waste. A common example of a solvent that becomes F-listed waste is lacquer thinner, since it frequently contains toluene and methyl ethyl ketone. To help ensure your paint booth filters do not become an F-listed hazardous waste, cleaning solvent should only be sprayed out into the product paint for thinning or into a hazardous waste container.

Be aware that a hazardous waste determination must be repeated whenever there is a change in products, processes, or procedures that could potentially affect whether the filters will be hazardous or non-hazardous.

Once the waste determination is complete, the proper disposal method must be chosen. If the filters are non-hazardous, they can be disposed as a solid waste in the normal solid waste stream (i.e. dumpster). However, your local solid waste department should be contacted for approval prior to disposal (Hillsborough County #272-5860 and City of Tampa #274-8083). If the filters are hazardous, then a licensed hazardous waste transporter should be used to dispose of the waste (list available from EPC).

Documentation of proper disposal must be kept on site for a minimum of three years. This includes any of the following: data and laboratory analyses used in the hazardous waste determinations, "generator's knowledge" statements, uniform hazardous waste manifests, and disposal receipts from the disposal facility. Questions regarding the proper management of solid and hazardous waste should be directed to EPC's Small Quantity Generator Program at (813) 272-5960.



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