

Safetygram

NCI-Frederick

ISM-178

Laboratory Personnel

January 2013

Liquid Scintillation Counting Fluid

If you use flammable scintillation cocktail – you should switch!

Many scintillation cocktails are hazardous waste because they are flammable (flash point less than 140°F) or contain EPA-listed solvents such as toluene or xylene. “Environmentally friendly” scintillation cocktails are those that:

- Have a flash point greater than 140°F (60°C).
- Contain solvents such as linear alkylbenzenes (LAB), phenylxylylethane (PXE) or diisopropylnaphthalene (DIPN).

The NCI-F warehouse stocks environmentally friendly Ecoscint O (SPWH-68101034) for non-aqueous samples. Most vendors also offer environmentally friendly scintillation fluids. A partial list of non-hazardous environmentally friendly scintillation cocktails is below.

Many vendors will send samples and provide information for your evaluation.

Cocktail Name	Supplier
Ecoscint A	National Diagnostics
Ecoscint	National Diagnostics
Ecoscint H	National Diagnostics
Ecoscint O	National Diagnostics
Betamax ES****	MP Biomedicals
Cytoscint ES****	MP Biomedicals
Ecolite	MP Biomedicals
Ecolume	MP Biomedicals
Mono Flow 5	National Diagnostics
Optifluor	Perkin-Elmer
Microscint 20	Perkin-Elmer
Microscint PS	Perkin-Elmer
Ultima Gold	Perkin-Elmer
Betaplate Scint	Pharmacia LKB
Ready Safe	Beckman Instruments

EHS will continue to handle disposal for all waste scintillation cocktails. Do not pour any liquid scintillation fluids into laboratory drains.

Please contact EHS on x5718 or x1384 if you have any questions concerning liquid scintillation cocktails.