

LIQUID SCINTILLATION & FLOW FLUIDS

Below is a list of REHS-approved scintillation and flow fluids that are safe and non-hazardous. REHS' criteria for approval includes but is not limited to a flashpoint greater than 140 °F, a pH range between 4 and 10, and no other hazardous constituents in the fluid.

If you wish to use a scintillation fluid that is not on this list or have any questions regarding this list, please contact the REHS Radioactive Waste Group: (848) 445-2550 or hazwaste@rutgers.edu

SAFE LIQUID SCINTILLATION & FLOW FLUIDS LIST

MANUFACTURER	SCINTILLATION FLUID	MANUFACTURER	SCINTILLATION FLUID
American Bioanalytical	SafeScint	Packard (Perkin Elmer)	Ultima Gold
Amersham (GE Healthcare)	BCS	Packard (Perkin Elmer)	Ultima Gold AB
Amersham (GE Healthcare)	BCS-NA	Packard (Perkin Elmer)	Ultima Gold F
Beckman	ReadySafe	Packard (Perkin Elmer)	Ultima Gold LLT
Fisher Scientific	Scintisafe 30%	Packard (Perkin Elmer)	Ultima Gold MV
Fisher Scientific	Scintisafe Econo 1	Packard (Perkin Elmer)	Ultima Gold XR
Fisher Scientific	Scintisafe Econo 2	Packard (Perkin Elmer)	Optifluor
Fisher Scientific	Scintisafe Econo F	Packard (Perkin Elmer)	Optifluor O
Fisher Scientific	Scintisafe Gel	Packard (Perkin Elmer)	Emulsifier Safe
Fisher Scientific	Scintisafe Plus 50%	Packard (Perkin Elmer)	Ultima Flow AF
Fisher Scientific	Scintiverse BD	Packard (Perkin Elmer)	Ultima Flow AP
ICN (MP Biomedical)	BetaMax ES	Packard (Perkin Elmer)	Ultima Flow M
ICN (MP Biomedical)	CytoScint ES	Packard (Perkin Elmer)	MicroScint 20
ICN (MP Biomedical)	Ecolume	Packard (Perkin Elmer)	MicroScint 40
ICN (MP Biomedical)	Ecolite +	Packard (Perkin Elmer)	MicroScint 0
ICN (MP Biomedical)	UniverSol ES	Packard (Perkin Elmer)	MicroScint PS
IN/US Systems	In-Flow BD	Research Product Int'l (RPI)	Bio-Safe II
IN/US Systems	In-Flow ES	Research Product Int'l (RPI)	Bio-Safe NA
Isolab	Solvent-Free	Research Product Int'l (RPI)	Econo-Safe
National Diagnostics	Ecoscint	Wallac (Perkin Elmer)	Betaplate Scint
National Diagnostics	Ecoscint A	Wallac (Perkin Elmer)	Optiphase HiSafe 2
National Diagnostics	Ecoscint H	Wallac (Perkin Elmer)	Optiphase HiSafe 3
National Diagnostics	Ecoscint O	Wallac (Perkin Elmer)	Optiphase Supermix
National Diagnostics	Uniscint BD	Wallac (Perkin Elmer)	Optiphase TriSafe
National Diagnostics	Monoflow 5		

NOTE: Contact vendor or website for the fluid best suited for the laboratory's needs.

REHS does not approve of the list below that contains HAZARDOUS scintillation and flow fluids. Labs shall avoid using these fluids, and instead use a fluid from the “SAFE” list.

HAZARDOUS LIQUID SCINTILLATION & FLOW FLUIDS LIST			
MANUFACTURER	SCINTILLATION FLUID	MANUFACTURER	SCINTILLATION FLUID
Amersham	ACS (Xylene, Methanol)	Packard (Perkin Elmer)	Aquasol (Xylene)
Amersham	ACS-II (Xylene)	Packard (Perkin Elmer)	Aquasol-2 (Xylene)
Amersham	PCS (Xylene)	Packard (Perkin Elmer)	Aquasure (Pseudocumene)
Amersham	OCS (Xylene)	Packard (Perkin Elmer)	Atomlight (Pseudocumene)
Beckman	Ready Flow III (Pseudocumene)	Packard (Perkin Elmer)	Biofluor (Pseudocumene)
Beckman	Ready Gel (Pseudocumene, Xylene)	Packard (Perkin Elmer)	Econofluor-2 (Pseudocumene)
Beckman	Ready Organic (Pseudocumene)	Packard (Perkin Elmer)	Filter-Count (Pseudocumene)
Beckman	Ready Protein (Pseudocumene)	Packard (Perkin Elmer)	Flo-Scint 3 (FP 115°F)
Beckman	Ready Solv HP (Pseudocumene)	Packard (Perkin Elmer)	Hionic-Fluor (Pseudocumene)
Beckman	Ready Value (Pseudocumene)	Packard (Perkin Elmer)	Insta-Fluor Plus (Pseudocumene)
Fisher Scientific	CytoScint (Pseudocumene)	Packard (Perkin Elmer)	Insta-Gel Plus (FP 114°F)
Fisher Scientific	Scintilene (Xylene)	Packard (Perkin Elmer)	Pico-Fluor 15 (Pseudocumene)
Fisher Scientific	Scintiverse Bio-HP (Pseudocumene)	Packard (Perkin Elmer)	Pico-Fluor 40 (Pseudocumene)
Fisher Scientific	Scintiverse E (Xylene)	Packard (Perkin Elmer)	Pico-Fluor MI (Pseudocumene)
Fisher Scientific	Scintiverse I (Xylene)	Research Product Int'l (RPI)	3a20 (Toluene)
Fisher Scientific	Scintiverse II (Pseudocumene)	Research Product Int'l (RPI)	3a70
Fisher Scientific	Scintiverse LC (Pseudocumene)	Research Product Int'l (RPI)	3a70B
IN/US Systems	In-Flow 2	Research Product Int'l (RPI)	4a20 (Xylene)
IN/US Systems	In-Flow 3	Research Product Int'l (RPI)	Bio-Count
IN/US Systems	In-Flow TC	Research Product Int'l (RPI)	Budget-Solve
National Diagnostics	Betafluor (FP 114°F)	Research Product Int'l (RPI)	Lefko-Fluor (FP 100°F)
National Diagnostics	Hydrofluor (FP 114°F)	Research Product Int'l (RPI)	Ria-Solve II
National Diagnostics	Liquiscint (FP 114°F)	Research Product Int'l (RPI)	Safety-Solve
National Diagnostics	Ultrafluor (FP 114°F)	Sigma-Aldrich	Sigma-Fluor (FP 116°F)
		Sigma-Aldrich	Sigma-Fluor HP (FP 117°F)
		Sigma-Aldrich	Sigma-Fluor Universal (FP 97°F)