

# Radioactive Liquid Waste Disposal by Sanitary Sewer for OUHSC labs

## Sink Disposal Guidelines

1. Radionuclide sink disposal limits are set by the Radiation Safety Office in accordance with the conditions of the NRC license limits and the state of Oklahoma and the city of Oklahoma City.

License Limits per labs (mCi)	Daily	Monthly	Annual
H-3	0.1	1.0	6.0
C-14	0.05	0.5	3.0
All other individual radionuclides	0.01	0.1	1.0

2. All tests and sink disposals will be documented in the sink disposal log.
3. All liquid sink disposal is nonhazardous aqueous only! If there is reason to believe that the pH level is not between 5 and 10.5 a litmus test must be performed.
4. A water solubility test is performed to ensure that the contents will be readily dispersible in water.
5. Liquid is then released into the public sewer and diluted with running water.

The following list of chemicals have been approved by the City of Oklahoma City Waste Water Department for drain disposal. (These chemicals are listed in the OUHSC RCRA Manual, Jan. 98, page E-1.)

### Chemicals

Bleach  
 Blood  
 Cell growth media  
 Disodium EDTA  
 EDTA  
 Ethanol  
 Formaldehyde  
 Formamide  
 Glucose  
 Hydrogen peroxide  
 Isopropyl alcohol  
 Methanol  
 NaCl  
 Phosphate buffered saline (PBS)  
 Sodium bicarb  
 Sodium citrate  
 Sodium dodecyl sulfate (SDS)  
 TRIS  
 Tris-borate-EDTA  
 Tris HCL

### Cocktails

BetaMax ES  
 Biosafe 2  
 CytoScint ES (ICN Biochemicals)  
 Ecolite (+)  
 Ecolume  
 Ready Safe  
 ScintiSafe Econo 2  
 ScintiSafe 30%  
 Scintiverse BD  
 Ultima Gold XR  
 Ultima-Flo M  
 Universol ES

For more information concerning the above scintillation fluids the following companies may be contacted

Fisher	1-800-766-7000
ICN Biomedicals	1-800-279-5490
Packard	1-800-856-0734