

Langerhans Lab Protocols

NC STATE UNIVERSITY

Chemical Waste Disposal Protocol

For Chemical Waste Pick-Up:

1. Log on to <http://www.ncsu.edu/ehs>.
2. Click on "Waste Submission Form".
3. Log on with your Unity ID and password.
4. Click on "Waste Submission"
5. Enter the lab registration ID: "langerhans" and the password: "gambusia".
6. Add a new form for each waste item being submitted.
7. Fill out and affix a Hazardous Waste label, from the drawer labeled "DRILL" and "waterproof paper", onto each submitted waste container.

Common Chemical Waste Constituents, Flash Points, and PH:

- Ethanol Waste:
 - Constituents:
 - Ethyl Alcohol – 75%-85%
 - Water – 25%-15%
 - Flash Point: 57° Fahrenheit
 - PH: 7
- Formalin Waste – 10% aqueous solution – most likely form of formalin waste.
 - Constituents:
 - Water – 95.1%
 - Formaldehyde – 3.7%
 - Methyl Alcohol – 1.2%
 - Flash Point: 185° Fahrenheit
 - PH: 3-4.5
- Formalin Waste – 20%
 - Constituents:
 - Deionized Water – 89.6%
 - Formaldehyde – 7.4%
 - Methyl Alcohol – 3%
 - Flash Point: 185° Fahrenheit
 - PH: 3-4.5
- Petroleum Ether
 - Constituents: Petroleum Ether – 100%
 - Flash Point: -.4° Fahrenheit
 - PH - N/A