

Use of Generally Licensed Uranium and Thorium Compounds

Some radioactive compounds can be purchased under a General License (instead of a State- or Federally-issued Radioactive Materials License). The chemical hazard of these compounds outweighs the radiological hazard, and the compounds are not subject to all requirements of the Georgia Tech Radiation Safety Program.

Common compounds include uranyl acetate, uranyl nitrate, thorium acetate, and thorium nitrate.

Instructions for working with generally licensed uranium and thorium compounds:

1. When ordering the compound, have it shipped to:

Principal Investigator's Name
Office of Radiological Safety
Georgia Institute of Technology
770 State Street
Atlanta, GA 30332
(404) 894-3605

2. Barcode and add the compound to your lab's chemical inventory in EHSA.

Instructions: <https://ehs.gatech.edu/node/1914>

For assistance: ehsa@gatech.edu

3. Wear gloves, safety glasses, and a lab coat.
4. Follow any guidance provided in the SDS, and use a properly operating chemical fume hood.

For assistance: lab-chemsafety@gatech.edu

5. Dispose of all solid and liquid waste into ORS-provided containers.

- a. This includes gloves, pipette tips, samples, etc.

- b. Document each disposal into the waste container on a "Form G to U/Th Compounds":

<http://www.ehs.gatech.edu/radiation/ram/forms>

- c. Request a waste pickup at:

Email ors@ors.gatech.edu

6. Contact the Office of Radiological Safety to ship the compound or a sample containing part of the compound, or if it must be transported by vehicle (even to another GT building).

For assistance with waste, spills, or any questions about radiation safety:

Office of Radiological Safety

404-894-3605

ors@ors.gatech.edu

For after-hours emergency help (spills, ingestion, inhalation):

EHS Emergency Phone

404-216-5237

Georgia Tech Police Department

404-894-2500