

CHEM 1411 Hazard Assessment

Experiment 1	The Densities of Liquids and Solids
Extra precautions to announce	Many of the unknown chemicals are flammable. There will be no open flames during this lab.
Additional PPE requirements	none
Waste disposal procedures	(1) Solids will be dried and reused. Place these in the appropriate collection containers. (2) Recycle or dispose of liquids in the HAZARDOUS CORROSIVE NON-HALOGENATED waste container. Consult with the Lab Assistant/Technician at your campus.
Experiment 2	Resolution of Matter into Pure Substances, I. Paper Chromatography
Extra precautions to announce	Mercury nitrate is toxic and silver nitrate will stain skin and clothing. Use caution when handling these chemicals. The eluting solvent is corrosive and flammable. No open flames.
Additional PPE requirements	none
Waste disposal procedures	(1) Dispose of eluting solvent in HAZARDOUS CORROSIVE HALOGENATED ORGANIC waste container. (2) Solutions of the metal nitrates should be disposed of in the HAZARDOUS HEAVY METAL INORGANIC waste container. (3) Paper from the chromatograms should be disposed of in the HAZARDOUS SOLID waste container.
Experiment 5	Identification of Compounds by Mass Relationships
Extra precautions to announce	none
Additional PPE requirements	none
Waste disposal procedures	Solids can be dumped in the trash or rinsed down the sink with plenty of water.
Experiment 6	Analysis of an Unknown Chloride
Extra precautions to announce	Silver nitrate is corrosive and will stain skin and clothing. Use caution when handling this chemical.
Additional PPE requirements	nitrile gloves and lab coats/aprons
Waste disposal procedures	Dispose of all solutions and rinse all solids into the HAZARDOUS HEAVY METAL INORGANIC waste container.

Experiment 11	The Alkaline Earths and the Halogens - Two Families in the Periodic Table
Extra precautions to announce	Sulfuric acid, chlorine water, bromine water, and iodine water are corrosive. Use caution when handling these chemicals. Hexane is flammable. There will be no flames in lab during performance of this experiment.
Additional PPE requirements	none
Waste disposal procedures	Dispose of all chemicals and rinse all test tubes into the container marked EXPERIMENT 11 HAZARDOUS WASTE DISPOSAL
Experiment 13	Heat Effects and Calorimetry
Extra precautions to announce	none
Additional PPE requirements	none
Waste disposal procedures	(1) Solid metals will be dried and reused. Place these in the appropriate collection containers. (2) Solutions can be poured into the HAZARDOUS ACIDIC INORGANIC waste container.
Experiment 33	Qualitative Analysis of Group I Cations
Extra precautions to announce	Lead nitrate, mercurous nitrate and potassium chromate are toxic. Use caution when handling these chemicals.
Additional PPE requirements	none
Waste disposal procedures	Dispose of all solutions and rinse all solids into the HAZARDOUS HEAVY METAL INORGANIC waste container.
Experiment 36	The Ten Test Tube Mystery
Extra precautions to announce	Lead nitrate is toxic. Use caution when handling this chemical.
Additional PPE requirements	none
Waste disposal procedures	Dispose of all solutions and rinse all solids into the HAZARDOUS HEAVY METAL INORGANIC waste container.

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Experiment 42	Water of Hydration
Extra precautions to announce	Nickel chloride, cobalt chloride and copper sulfate are toxic. Nitric acid is corrosive. Use caution when handling these chemicals.
Additional PPE requirements	none
Waste disposal procedures	Dispose of all solutions and rinse all solids into the HAZARDOUS HEAVY METAL INORGANIC waste container.

Experiment 43	Spot Tests for Some Common Ions
Extra precautions to announce	Potassium chromate and barium chloride are toxic. Silver nitrate will stain skin and clothing. Hydrochloric acid, nitric acid, acetic acid and sodium hydroxide are corrosive. Use caution when handling these chemicals.
Additional PPE requirements	none
Waste disposal procedures	Dispose of all solutions and rinse all solids into the HAZARDOUS HEAVY METAL INORGANIC waste container.