

DRAIN DISPOSAL QUICK REFERENCE GUIDE

Dispose of these chemicals down the drain

Do NOT put these chemicals down the drain

Segment 1 Atoms and Periodicity

Lithium chloride
Potassium chloride
Sodium chloride
Strontium chloride
Calcium chloride

Copper(II) chloride
Barium chloride

Store in labeled waste containers.

Segment 2 Properties and Bonding

Sulfuric acid*
Potassium iodide
Calcium carbonate
Iron chloride
Magnesium sulfate

*Strong acids and bases should be adjusted to pH between 5.5 and 10.5 before drain disposal.

Lead nitrate
Copper(II) nitrate
Hexanes

Store in labeled waste containers.

Segment 3 Chemical Reactions

Ammonium chloride
Ammonium nitrate
Iron(III) nitrate
Sodium carbonate
Sodium hydroxide*
Sodium iodide
Sodium phosphate
Sodium sulfate
Sodium thiosulfate
Acetic acid*
Sodium bicarbonate

*Strong acids and bases should be adjusted to pH between 5.5 and 10.5 before drain disposal.

Cobalt(II) chloride
Nickel(II) chloride hexahydrate
Copper
Copper(II) chloride dihydrate

Store in labeled waste containers.

Segment 4 Solutions, Acids, and Bases

Bromothymol blue
Hydrochloric acid*
Hydrogen peroxide
Magnesium hydroxide*
Phenol red
Phenolphthalein
Sodium hydroxide*
Thymol Blue

*Strong acids and bases should be adjusted to pH between 5.5 and 10.5 before drain disposal.

Methyl Red**

**Methyl red is a suspected mutagen. An alternative chemical is Bromocresol green (pH 4-6).

Store in labeled waste containers.

More Safety Tips

- When pouring excess chemicals in the drain, make sure to dilute them with a lot of water. Only use a lab sink, never pour into a storm drain.
- Store heavy metals separately from other waste.
- Students and teachers should always wear the appropriate personal protective equipment (PPE), such as gloves, aprons, lab coats etc., when handling waste.

Segments are based on the labs recommended by the Georgia Department of Education Curriculum Map for High School chemistry. See Georgia Inspire (<https://inspire.gadoe.org>) for more information. Please note that this is not a comprehensive list of chemicals. Always consult relevant Safety Data Sheets (SDS) before disposing of a chemical.

For more information:
Georgia Department of Public Health
Chemical Hazards Program
(404) 657-6534

dph.ga.gov/chemical-hazards

