





















College Chemistry Lab (CHEM 120L) List of Chemicals








| Chemical Name ¹ | GHS Pictograms ² | Hazard Statements ³ | Signal Word | NFPA Rating (H-F-I-SH) | Carcinogen | Reproductive Toxin |
|----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------|------------------------|------------|--------------------|
| Acetic acid, 20% |  | H314, H318 | Danger | 3-0-0 | No | No |
| Aluminum (Foil and Shot) |  | H410 | Warning | 0-0-0 | No | No |
| Ammonium hydroxide, 20% (20% Ammonia Water) |    | H302, H314, H319, H400 | Danger | 3-0-0 | No | No |
| Copper carbonate |  | H315, H319, H320, H335 | Warning | 2-0-0 | No | No |
| Copper sulfate pentahydrate |    | H302, H315, H319, H335, H373, H410 | Danger | 2-0-1 | No | No |
| 1M Copper sulfate |   | H302, H315, H319, H410 | Warning | 2-0-0 | No | No |
| Hydrochloric acid , various concentrations |   | H290, H314, H335, H373 | Danger | 3-0-0 | No | No |
| Iron Nails |  | H228 | Warning | 1-2-1 | No | No |
| Iodine potassium iodide solution | None | H402 | None | 2-0-0 | No | No |
| 1% Phenolphthalein in Ethanol |    | H225, H319, H341, H351, H361 | Danger | 2-3-0 | Yes | Yes |
| Phosphoric acid |   | H290, H314, H335 | Danger | 3-0-0 | No | No |
| 1M Potassium iodide |  | H315, H319 | Warning | 0-0-0 | No | No |

¹ Safety Data Sheets may be accessed by following hyperlink assigned to each chemical name.

² Refer to Pictogram Key.

³ Refer to Hazard Statement Key.

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|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------|-------------|------------------------|------------|--------------------|
| Potassium ferrocyanide |  | H412 | None | 1-0-0 | No | No |
| 0.1M Potassium permanganate |  | H410 | Warning | 1-0-0 | No | No |
| Silver nitrate solution |  | H315, H319, H400, H410 | Warning | 2-0-0 | No | No |
| Sodium bicarbonate |  | H320, H335 | Warning | 2-0-1 | No | No |
| Sodium bicarbonate solution | None | None | None | 0-0-0 | No | No |
| Sodium bisulfate monohydrate |  | H314, H318, H335 | Danger | 2-0-0 | No | No |
| 1% Sodium chloride aqueous solution | None | None | None | 1-0-0 | No | No |
| Sodium hydroxide solution , various concentrations |  | H290, H314, H335 | Danger | 3-0-0 | No | No |
| 1% Starch solution | None | None | None | 0-0-0 | No | No |
| Sucrose (Table sugar) | None | None | None | 1-1-0 | No | No |
| Sulfuric acid |  | H290, H314, H335 | Danger | 3-0-2- W | No | No |
| Zinc, shot | None | None | None | 1-1-0 | No | No |

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Hazard Statement Key

| | | | | | | | |
|------|-------------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------|------|----------------------------------------------------------------------------|------|----------------------------------------------------------------------------------|
| | PHYSICAL HAZARDS | H241 | Heating may cause a fire or explosion. | H310 | Fatal in contact with skin. | H350 | May cause cancer. |
| H200 | Unstable explosive. | H242 | Heating may cause a fire | H311 | Toxic in contact with skin. | H351 | Suspected of causing cancer. |
| H201 | Explosive; mass explosion hazard. | H250 | Catches fire spontaneously if exposed to air. | H312 | Harmful in contact with skin. | H360 | May damage fertility or the unborn child. |
| H202 | Explosive; severe projection hazard. | H251 | Self-heating; may catch fire | H313 | May be harmful in contact with skin. | H361 | Suspected of damaging fertility or the unborn child. |
| H203 | Explosive; fire, blast or projection hazard. | H252 | Self-heating in large quantities; may catch fire | H314 | Causes severe skin burns and eye damage. | H362 | May cause harm to breast-fed children. |
| H204 | Fire or projection hazard. | H260 | In contact with water releases flammable gases which may ignite spontaneously. | H315 | Causes skin irritation. | H370 | Causes damage to organs. |
| H205 | May mass explode in fire. | H261 | In contact with water releases flammable gas. | H316 | Causes mild skin irritation. | H371 | May cause damage to organs. |
| H220 | Extremely flammable gas. | H270 | May cause or intensify fire; oxidizer | H317 | May cause an allergic skin reaction. | H372 | Causes damage to organs through prolonged or repeated exposure. |
| H221 | Flammable gas. | H271 | May cause fire or explosion; strong oxidizer. | H318 | Causes serious eye damage. | H373 | May cause damage to organs through prolonged or repeated exposure. |
| H222 | Extremely flammable aerosol. | H272 | May intensify fire; oxidizer. | H319 | Causes serious eye irritation. | | ENVIRONMENTAL HAZARDS |
| H223 | Flammable aerosol. | H280 | Contains gas under pressure; may explode if heated. | H320 | Causes eye irritation. | H400 | Very toxic to aquatic life. |
| H224 | Extremely flammable liquid and vapor. | H281 | Contains refrigerated gas; may cause cryogenic burns or injury. | H330 | Fatal if inhaled. | H401 | Toxic to aquatic life. |
| H225 | Highly flammable liquid and vapor. | H290 | May be corrosive to metals. | H331 | Toxic if inhaled. | H402 | Harmful to aquatic life. |
| H226 | Flammable liquid and vapor. | | HEALTH HAZARDS | H332 | Harmful if inhaled. | H410 | Very toxic to aquatic life with long-lasting effects. |
| H227 | Combustible liquid. | H300 | Fatal if swallowed. | H333 | May be harmful if inhaled. | H411 | Toxic to aquatic life with long-lasting effects. |
| H228 | Flammable solid. | H301 | Toxic if swallowed. | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | H412 | Harmful to aquatic life with long-lasting effects |
| H229 | Pressurized container: may burst if heated. | H302 | Harmful if swallowed. | H335 | May cause respiratory irritation. | H413 | May cause long-lasting harmful effects to aquatic life. |
| H230 | May react explosively even in the absence of air. | H303 | May be harmful if swallowed. | H336 | May cause drowsiness or dizziness. | H420 | Harms public health and the environment by destroying ozone in upper atmosphere. |
| H231 | May react explosively even in the absence of air at elevated pressure and/or temperature. | H304 | May be fatal if swallowed and enters airways. | H340 | May cause genetic defects. | H361 | Suspected of damaging fertility or the unborn child. |
| H240 | Heating may cause an explosion. | H305 | May be harmful if swallowed and enters airways | H341 | Suspected of causing genetic defects. | | |

Pictogram Key

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|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|
|  | Carcinogen, Mutagen, Reproductive toxin, Respiratory sensitizer, Target organ toxicity, Aspiration toxicity |  | Flammables, Pyrophorics, Self-Heating, Emits Flammable Gas, Self-Reactives, Organic Peroxides |  | Irritant (skin/eye), Skin sensitizer, Acute toxicity (harmful), Narcotic effects, Respiratory tract irritant, Hazardous to ozone |
|  | Gases under pressure |  | Skin Corrosion/Burns, Eye Damage, Corrosive to Metals |  | Explosives, Self-reactives, Organic peroxides |
|  | Oxidizers |  | Aquatic toxicity |  | Acute toxicity (fatal or toxic) |