











# General Chemistry (CHEM 207L) Chemical List

| Chemical Name <sup>1</sup>                           | GHS Pictograms <sup>2</sup>   | Hazard Statements <sup>3</sup>                 | Signal Word | NFPA Rating (H-F-I-SH) | Carcinogen | Reproductive Toxin                              |
|--|---|--|-------------|------------------------|------------|---|
| <a href="#">Acetone</a>                              |    | H225, H319, H336, H373                         | Danger      | 1-3-0                  | No         | No  |
| <a href="#">Alkaline Iodide Azide solution</a>       |    | H312, H314, H318, H412                         | Danger      | 3-0-1                  | No         | No  |
| <a href="#">Ammonium(VI) molybdate</a>               |    | H302, H315, H319, H335                         | Warning     | 2-1-0                  | No         | No  |
| <a href="#">Ammonium hydroxide</a>                   |    | H314, H335                                     | Danger      | 3-1-0                  | No         | No  |
| <a href="#">Barium chloride dihydrate</a>            |    | H301, H332, H335, H373                         | Danger      | 3-1-0                  | No         | No  |
| <a href="#">Barium hydroxide octahydrate</a>         |    | H302, H314, H332, H335                         | Danger      | 3-1-1                  | No         | No  |
| <a href="#">Calcium chloride dehydrate</a>           |    | H302, H319                                     | Warning     | 2-0-1                  | No         | No  |
| <a href="#">Calcium sulfate dihydrate</a>            | None  | None   | None        | 1-0-0                  | No         | No  |
| <a href="#">Chlorine water</a> (Sodium hypochlorite) |  | H290, H318, H315, H411                         | Danger      | 3-0-1                  | No         | No  |
| <a href="#">Copper</a>                               | None  | None   | None        | 1-0-0                  | No         | No  |
| <a href="#">Ethyl alcohol</a> (Ethanol)              |  | H225, H301, H336, H360, H373                   | Danger      | 1-3-0                  | Yes        | Yes (only when consumed in alcoholic beverages) |
| <a href="#">Hexanes</a>                              |  | H225, H304, H315, H319, H335, H336, H361, H373 | Danger      | 2-3-0                  | No         | Yes   |

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|---|-----------------------------|--|-------------|------------------------|------------|--------------------|
| <a href="#">Hydrochloric acid</a>   |                             | H290, H314, H335, H373                         | Danger      | 3-0-0                  | No         | No                 |
| <a href="#">Iron(III) chloride hexahydrate</a><br>(Iron chloride hexahydrate) |                             | H290, H302, H315, H318                         | Danger      | 2-0-0                  | No         | No                 |
| <a href="#">Iron Standard Solution</a>  |                             | H315, H318                                     | Danger      | 3-0-0                  | No         | No                 |
| <a href="#">Isopropanol</a> (2-Propanol)                                      |                             | H225, H319, H335, H336, H373                   | Danger      | 1-3-0                  | No         | No                 |
| <a href="#">Magnesium sulfate heptahydrate</a>                                | None                        | None   | None        | 1-0-1                  | No         | No                 |
| <a href="#">Manganese sulfate monohydrate</a>                                 |                             | H318, H373                                     | Danger      | 2-0-1                  | No         | No                 |
| <a href="#">Methyl alcohol</a> (Methanol)                                     |                             | H225, H301, H311, H331, H335, H336, H370, H372 | Danger      | 1-3-0                  | No         | Yes<br>(see SDS)   |
| <a href="#">Naphthalene</a>   |                             | H223, H302, H336, H350, H373                   | Danger      | 2-2-0                  | Yes        | No                 |
| <a href="#">Nitric acid</a>   |                             | H272, H290, H314, H335, H373                   | Danger      | 4-0-0-OX               | No         | No                 |
| <a href="#">Potassium permanganate</a>  |                             | H272, H302, H314, H335, H410                   | Danger      | 3-0-2-OX               | No         | No                 |
| <a href="#">Sand</a>  | None                        | None   | None        | 0-0-0                  | No         | No                 |
| <a href="#">Silicon dioxide</a> (Silica)                                      |                             | H335   | Warning     | 1-0-1                  | No         | No                 |

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|---|---|------------------------------------|-------------|------------------------|------------|--------------------|
| <a href="#">Silver nitrate</a>                  |    | H272, H290, H314, H335, H373, H410 | Danger      | 3-0-2-OX               | No         | No                 |
| <a href="#">Sodium carbonate monohydrate</a>    |    | H319, H336                         | Warning     | 2-0-1                  | No         | No                 |
| <a href="#">Sodium chloride</a>                 | None  | None                               | None        | 1-0-1                  | No         | No                 |
| <a href="#">Sodium hydroxide, pellets</a>       |    | H290, H314, H335                   | Danger      | 3-0-1                  | No         | No                 |
| <a href="#">Sodium hydroxide, 1N solution</a>   |    | H290, H314, H335                   | Danger      | 3-0-0                  | No         | No                 |
| <a href="#">Sodium thiosulfate pentahydrate</a> | None  | None                               | None        | 1-1-0                  | No         | No                 |
| <a href="#">Starch</a>                          | None  | None                               | None        | 1-1-0                  | No         | No                 |
| <a href="#">Stearic acid</a>                    | None  | None                               | None        | 1-1-0                  | No         | No                 |
| <a href="#">Sulfuric acid</a>                   |  | H290, H314, H335                   | Danger      | 3-0-2- <del>W</del>    | No         | No                 |
| <a href="#">Zinc, powder</a>                    |  | H260, H250                         | Danger      | 1-4-3- <del>W</del>    | No         | No                 |
| <a href="#">Zinc, shot</a>                      | None  | None                               | None        | 1-1-0                  | No         | No                 |
| <a href="#">Zinc sulfate</a>                    |  | H302, H318, H373                   | Danger      | 2-0-0                  | No         | No                 |

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|                            |                             |                                |             |                           |            |                       |
|                            |                             |                                |             |                           |            |                       |

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Created 9/21/2015, Revised 9/25/2015

## Hazard Statement Key

|      |   |      |  |      |  |      |  |
|------|---|------|--|------|--|------|--|
|      | <b>PHYSICAL HAZARDS</b>   | 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.   |      | <b>ENVIRONMENTAL HAZARDS</b>   |
| 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.   |      | <b>HEALTH HAZARDS</b>  | 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

|   |   |   |   |   |  |
|---|---|---|---|---|--|
|  | 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)  |