

Directions for the Creation and Use of GHS Labels

Globally Harmonized System (GHS) labels must have the following elements:

1. Product Name or Identifier
2. Pictograms (See Final Page)
3. Signal Word (Danger or Warning)
4. Statement of Hazards
5. Precautionary Statements
6. First Aid Statement
7. Name of Company

Address

Phone Number

The templates contained in this document are believed to be the most common ones that would be used at EKU. Because there are many possible combinations of pictograms, which may be needed, all of the possibilities are not contained here. If an appropriate template is not found, the person in responsible charge of the lab will need to construct a label using information from the SDS (Safety Data Sheet). A blank bordered label is included for this purpose. Additionally, it is wise to label nonhazardous chemical products with a label, or at a minimum, a pictogram indicating that no GHS label is required.

Using the Templates

The templates supplied are presented in sets of two. Both are needed. This is so the name and other information can be readily found on the front of a container, and the hazard, precaution, and first aid information can be found on the back. The first part of the label contains the product name, pictograms, signal word, received or preparation date, and responsible EKU employee. The second part of the label contains the statement of hazards, precautionary statements, first aid statement, and the company name, address, and telephone number. If it is more convenient, you can combine the two parts into one larger label. Be careful that you do not cover up other useful information that others might need (i.e. Catalog Numbers, CAS Numbers, etc.).

If you are attaching a label to a container that already has some of this information included from the manufacturer, it is not necessary to repeat the information on this label. Example: if the company name, address, and phone number are present, there is no need to repeat it. You must make sure that all the elements of a GHS Label are present.

Select a template appropriate for the material you are labeling. Copy and paste it to a new blank word document. Remove the product name on the template and type in the appropriate product name. Next, delete the words "Faculty Name" and type in the name of the responsible faculty or staff member. Then, change the received date with the appropriate information. Finally, move on to the second part of the label and put in the company name, address, and phone number.

You can change the size of any parts of the template to accommodate all the necessary information. You can also place your cursor on the corners of the template and increase or decrease the size of the label as needed. Hopefully, you will find these templates helpful in creating your GHS compliant labels.

Label for a Flammable / Mildly Toxic Chemical

Chemical or Product Name



DANGER!
Flammable!
Faculty Name
Received or Prepared Date

Statement of Hazards:

Causes respiratory tract, skin and eye irritation. May cause blood disorders. May affect the central nervous system. May cause adverse reproductive effects. May affect respiration. May affect the kidneys. May affect the liver. Flammable liquid and vapor. May cause flash fire. See SDS for more info

Precautionary Statements:

Keep away from all ignition sources. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation. See SDS for more info.

First Aid:

Skin contact: Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye contact: Wash eyes immediately with large amounts of water or normal saline. Ingestion: Get medical attention immediately. See SDS for more info

Company Name

Address

Phone

Label for a Corrosive / Mildly Toxic Chemical

Chemical or Product Name



DANGER!
Corrosive!

Faculty Name
Received or Preparation Date

Statement of Hazards:
Harmful if swallowed. Causes severe burns to mucous membranes. Causes skin and eye burns. Causes respiratory tract irritation. May cause blindness. May affect the kidneys. May affect the liver. May damage the lungs. See SDS for more info.

Precautionary Statements:
Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation. See SDS for more info.

First Aid:
Inhalation: Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary and certified. Keep person warm and at rest. Skin contact: Remove contaminated clothing and shoes immediately. Wash affected area with soap or mild detergent and large amounts of water. Ingestion: Allow vomiting to occur. Get medical attention immediately. See SDS for more info.

Company
Address
Phone

Label for an Oxidizing / Mildly Toxic Chemical

Chemical or Product Name



Warning!
Oxidizer! Irritant!

Faculty Name
Received or Preparation Date

Statement of Hazards:
Respiratory tract irritation, skin irritation, eye irritation. Pure material may explode if exposed to shock, friction, or heating. Strong oxidizer. May ignite or explode on contact with combustible materials. See SDS for more info.

Precautionary Statements:
Avoid exposure to this material. Avoid friction and static electricity. Avoid heat, flames, sparks, and other sources of ignition. Avoid contact with incompatible materials. Containers may rupture or explode if exposed to heat. See SDS for more info.

First Aid:
Inhalation: Remove from exposure immediately. Perform artificial respiration if needed. Skin contact: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye Contact: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains. Ingestion: If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately. See SDS for more info.

Company
Address
Phone

Label for a Mildly Toxic Chemical

<p>Chemical or Product Name</p> <p></p> <p>Warning! Toxic! Irritant! Faculty Name Received or Preparation Date</p>
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Statement of Hazards:

Harmful if swallowed, respiratory tract irritation, skin irritation, eye irritation. May damage kidneys. See SDS for more info.

Precautionary Statements:

Avoid generating and breathing dust. Avoid all contact with this material. Use only with adequate exhaust ventilation. See SDS for more info.

First Aid:

Inhalation: Remove from exposure immediately. Use a bag valve mask or similar device to perform artificial respiration if needed. Skin Contact: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemicals remains (at least 15-20 minutes). Eye Contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Ingestion: Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately. See SDS for more info.

Company
Address
Phone

Label for a Flammable Solid

**Powder Metal or
Flammable Solid**



DANGER!
Flammable!
Toxic!
Faculty Name
Received or Preparation Date

Statement of Hazards:

Flammable solid. May cause an allergic skin reaction. Suspected of causing cancer. Causes damage to organs through prolonged or repeated exposure if inhaled. Very toxic to aquatic life. See SDS for more info.

Precautionary Statements:

Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Avoid release to the environment. Wear protective gloves. Get medical advice/ attention if you feel unwell. See SDS for more info.

First Aid:

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician. See SDS for more info.

Company
Address
Phone

Label for a Flammable, Corrosive, and Toxic Chemical

Chemical or Product Name



DANGER!
Highly Flammable! Corrosive!

Faculty Name
Received or Preparation Date

Statement of Hazards:

Harmful if inhaled, respiratory tract burns, skin burns, eye burns, mucous membrane burns. Extremely flammable liquid and vapor. Vapor may cause flash fire. May ignite if exposed to shock, friction, or heating. See SDS for more info.

Precautionary Statements:

Provide local exhaust ventilation. Avoid all contact with this material. Avoid all sources of ignition. See SDS for more info

First Aid:

Inhalation: When safe to enter area, remove from exposure. Perform artificial respiration if needed. Skin contact: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye Contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Ingestion: Contact local poison control center or physician immediately. Allow vomiting to occur. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately. See SDS for more info.

Company
Address
Phone

Label for Flammable, Corrosive, and Mildly Toxic Chemical

Chemical or Product Name



Warning!
Flammable! Corrosive! Irritant!

Faculty Name
Received or Preparation Date

Statement of Hazards:
Harmful on contact with skin, respiratory tract irritation, skin irritation, eye irritation, central nervous system depression. Flash back hazard. Combustible liquid and vapor. See SDS for more info.

Precautionary Statements:
Avoid exposure to vapor and liquid. Avoid heat, flames, sparks and other sources of ignition. See SDS for more info.

First Aid:
Inhalation: Remove from exposure immediately. Perform artificial respiration if needed. Keep warm and at rest. Skin contact: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye Contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Get medical attention immediately. Ingestion: Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. When vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention. See SDS for more info.

Company
Address
Phone

Label for a Flammable Toxic Chemical

Chemical or Product Name



DANGER!
Flammable!
Faculty Name
Received or Preparation Date

Statement of Hazards:

Causes respiratory tract, skin, and eye irritation. May affect central nervous system. Combustible liquid and vapor. May cause fire. See SDS for more info.

Precautionary Statements:

Do not breathe vapor or mist. Do not get in eyes, on skin, or on clothing. Keep away from all ignition sources and combustible material. Close container tightly. Use only with adequate ventilation. Wash hands thoroughly after handling. See SD for more info.

First Aid:

Inhalation: Remove to fresh air immediately. Perform artificial respiration if necessary. Get medical attention immediately. Qualified medical personnel should consider administering oxygen. Eye Contact: Wash eyes immediately with large amounts of water until no chemical remains. Irrigate with saline solution. Seek medical attention. Ingestion: If vomiting occurs, keep head lower than hips to prevent aspiration. Seek qualified medical attention. Skin Contact: Remove contaminated clothing and shoes immediately. Wash with soap and large amounts of water until no chemical remains. Seek medical attention. See SDS for more info.

Company
Address
Phone

Label for an Oxidizing and Corrosive Chemical

Chemical or Product Name



DANGER!
Poison! Strong Oxidizer!
Faculty Name
Received or Preparation Date

Statement of Hazards:
May be fatal if swallowed. Causes severe burns to mucous membranes. Causes respiratory tract, skin and eye irritation, possibly severe. See SDS for more info.

Precautionary Statements:
Strong oxidizer. Contact with other material may cause fire. Poison. Do not breathe dust. Do not get in eyes, on skin, or on clothing. Keep from contact with clothing and other combustible materials. Store away from combustible materials. Keep container tightly closed. Wash thoroughly after handling. Use only with adequate ventilation. See SDS for more info.

First Aid:
Inhalation: Remove from exposure area to fresh air immediately. Perform artificial respiration if necessary. Skin contact: Remove contaminated clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye contact: Wash eyes immediately with large amounts of water, occasionally lifting upper and lower lids, until no evidence of chemical remains (at least 15-20 minutes). Ingestion: Get medical attention immediately. See SDS for more info.

Company
Address
Phone

Label for an Oxidizing Chemical

Chemical or Product Name



Warning!

Oxidizer! Irritant!

Faculty Name

Received or Preparation Date

Statement of Hazards:

Strong oxidizer. Pure material may ignite or explode on contact with combustible materials. May irritate skin and eyes. Short term exposure to the pure material (dust) may cause burns, nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, bluish skin color, convulsions, or coma. See SDS for more info.

Precautionary Statements:

Avoid contact with skin and eyes. Avoid contact with combustible materials. Provide local exhaust ventilation system. See SDS for more info.

First Aid:

Inhalation: Remove from exposure immediately. Perform artificial respiration if necessary. Skin contact: Remove contaminated jewelry, clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Ingestion: If vomiting occurs, keep head lower than hips to prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately. See SDS for more info.

Company

Address

Phone

Label for an Oxidizing, Acutely Toxic, and Corrosive Chemical

Chemical or Product Name



DANGER!
Oxidizer! Toxic! Corrosive!
Faculty Name
Received or Preparation Date

Statement of Hazards:
Strong oxidizer. Pure material may ignite or explode on contact with combustible materials. May irritate skin and eyes. Short term exposure to the pure material (dust) may cause burns, nausea, vomiting, difficulty breathing, irregular heartbeat, headache, drowsiness, dizziness, bluish skin color, convulsions, or coma. See SDS for more info.

Precautionary Statements:
Avoid contact with skin and eyes. Avoid contact with combustible materials. Provide local exhaust ventilation system. See SDS for more info.

First Aid:
Inhalation: Remove from exposure immediately. Perform artificial respiration if necessary. Skin contact: Remove contaminated jewelry, clothing and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Ingestion: If vomiting occurs, keep head lower than hips to prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately. See SDS for more info.

Company
Address
Phone

Label for an Oxidizing and Mildly Toxic Chemical

Chemical or Product Name



Warning!
Oxidizer! Irritant!

Faculty Name
Received or Preparation Date

Statement of Hazards:
Respiratory tract irritation, skin irritation, eye irritation, blood damage. Strong oxidizer. May ignite or explode on contact with combustible materials. May decompose on contact with air, light, moisture, heat or storage. Use above room temperature. See SDS for more info.

Precautionary Statements:
Avoid all contact with this material. Avoid contact with combustible materials. Provide local exhaust ventilation system. See SDS for more info.

First Aid:
Inhalation: Remove from exposure immediately. Perform artificial respiration if needed. Skin contact: Remove contaminated clothing, jewelry, and shoes immediately. Wash with soap or mild detergent and large amounts of water until no evidence of chemical remains (at least 15-20 minutes). Eye Contact: Wash eyes immediately with large amounts of water or normal saline, occasionally lifting upper and lower lids, until no evidence of chemical remains. Ingestion: Contact local poison control center or physician immediately. Never make an unconscious person vomit or drink fluids. If vomiting occurs, keep head lower than hips to help prevent aspiration. If person is unconscious, turn head to side. Get medical attention immediately. See SDS for more info.

Company
Address
Phone

Blank Template to Construct Other GHS Labels

Product Name or Identifier



Signal Word (Danger or Warning)

Faculty Name

Received or Preparation Date

Statement of Hazards:

Precautionary Statements:

First Aid:

Company Name
Address
Phone

Pictograms for Labels

GHS Labels

 <p>GHS Label, Flame</p>	 <p>GHS Label, Flame Over Circle</p>	 <p>GHS Label, Exploding Bomb</p>	 <p>GHS Label, Corrosion</p>
 <p>GHS Label, Gas Cylinder</p>	 <p>GHS Label, Skull & Crossbones</p>	 <p>GHS Label, Exclamation Point</p>	 <p>GHS Label, Environment</p>
 <p>GHS Label, Health Hazard</p>	 <p>No GHS Label required,</p>		



Hazard Communication Standard Labels

OSHA has updated the requirements for labeling of hazardous chemicals under its Hazard Communication Standard (HCS). As of June 1, 2015, all labels will be required to have pictograms, a signal word, hazard and precautionary statements, the product identifier, and supplier identification. A sample revised HCS label, identifying the required label elements, is shown on the right. Supplemental information can also be provided on the label as needed.

For more information:



(800) 321-OSHA (67423)
www.osha.gov

SAMPLE LABEL

<p>OSHA Product Name: _____</p> <p>Supplier Identification Company Name: _____ Street Address: _____ City: _____ State: _____ Postal Code: _____ Country: _____ Emergency Phone Number: _____</p> <p>Keep container tightly closed. Store in a cool, well-ventilated place that is locked. Keep away from heat, polypropylene flares, hot smoking surfaces, and open flames.</p> <p>Use eye protection and other equipment. Take precautionary measures against static discharge, ground and bond container and avoid any spillage. Do not breathe vapors. Wear protective gloves. Do not eat, drink or smoke when using the product. Wash hands thoroughly after handling. Diagram of the container with hazard, signal, hazard, precautionary, signal word, and supplier information required on sample label.</p> <p>Precautionary Statements are:</p> <p>Hazard Statements Highly flammable liquid and vapor. May cause liver and kidney damage.</p> <p>Signal Word Danger</p> <p>Hazard Pictograms</p> <p>Supplemental Information In Case of Fire use Dry Chemical (BC) or Carbon Dioxide (CO2) fire extinguisher to extinguish. Filtrated Aid Prepared and Packed Cases For sale (or For Use) in household quantity containers and droning. When sold in this manner.</p> <p>Supplier Information Description Use: _____ _____ _____ _____ Net weight: _____ Lot Number: _____ Gross weight: _____ MSD No.: _____ Expiration Date: _____</p>	<p>Product Identifier OSHA Product Name: _____</p> <p>Supplier Identification Company Name: _____ Street Address: _____ City: _____ State: _____ Postal Code: _____ Country: _____ Emergency Phone Number: _____</p> <p>Hazard Pictograms</p> <p>Signal Word Danger</p> <p>Hazard Statements Highly flammable liquid and vapor. May cause liver and kidney damage.</p> <p>Supplemental Information Description Use: _____ _____ _____ _____ Net weight: _____ Lot Number: _____ Gross weight: _____ MSD No.: _____ Expiration Date: _____</p>
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Hazard Communication Standard Pictogram

As of June 1, 2015, the Hazard Communication Standard (HCS) will require pictograms on labels to alert users of the chemical hazards to which they may be exposed. Each pictogram consists of a symbol on a white background framed within a red border and represents a distinct hazard(s). The pictogram on the label is determined by the chemical hazard classification.

HCS Pictograms and Hazards

<p>Health Hazard</p>  <ul style="list-style-type: none"> • Carcinogen • Mutagenicity • Reproductive Toxicity • Respiratory Sensitizer • Target Organ Toxicity • Aspiration Toxicity 	<p>Flame</p>  <ul style="list-style-type: none"> • Flammables • Pyrophorics • Self-Heating • Emits Flammable Gas • Self-Reactives • Organic Peroxides 	<p>Exclamation Mark</p>  <ul style="list-style-type: none"> • Irritant (skin and eye) • Skin Sensitizer • Acute Toxicity (harmful) • Narcotic Effects • Respiratory Tract Irritant • Hazardous to Ozone Layer (Non-Mandatory)
<p>Gas Cylinder</p>  <ul style="list-style-type: none"> • Gases Under Pressure 	<p>Corrosion</p>  <ul style="list-style-type: none"> • Skin Corrosion/ Burns • Eye Damage • Corrosive to Metals 	<p>Exploding Bomb</p>  <ul style="list-style-type: none"> • Explosives • Self-Reactives • Organic Peroxides
<p>Flame Over Circle</p>  <ul style="list-style-type: none"> • Oxidizers 	<p>Environment (Non-Mandatory)</p>  <ul style="list-style-type: none"> • Aquatic Toxicity 	<p>Skull and Crossbones</p>  <ul style="list-style-type: none"> • Acute Toxicity (fatal or toxic)

For more information:



U.S. Department of Labor

www.osha.gov (800) 321-OSHA (6742)