This is the last Safety Talk on Colby's hazcom program. The intent of this Safety Talk is to familiarize yourself with basic chemical hazards and the terminology found in every workplace. Finally, we will discuss some of the specific chemical hazards you have to contend with and protect yourself from as part of your job.

**Examples of Health Hazards:**
- Corrosives - cause tissue damage and burns on contact with the skin and eyes
- Irritants - cause intense redness or swelling of the skin or eyes on contact, but with no permanent tissue damage
- Sensitizers - cause an allergic skin or lung reaction
- Carcinogens - may cause cancer
- Mutagens - may cause mutations or birth defects
- Target Organ Toxicants - impacts specific organ(s)
- Aspirants - enter the lungs and cause damage
- Asphyxiants - cause suffocation

**Examples of Physical Hazards:**
- Explosives - react violently
- Flammable Gases, solids and liquids - obvious fire hazards
- Oxidizing liquids, solids and gases - adds to combustion
- Gases Under Pressure - may react violently is rapidly released
- Pyrophoric Liquids or solids - spontaneously combust
- Substances that in react with Water Emit Flammable Gases
- Organic Peroxides - can act as an oxidizer in a fire
- Substances Corrosive to Metal

**Primary Routes of Exposure:**
- Ingestion
- Skin Contact
- Absorption through the skin
- Inhalation (breathing)
Common Chemicals used by Grounds Keepers:

- Lubricating Oil
- Gasoline/Diesel
- Road treatment materials
- Various aerosols
- Spray paints
- Coolants
- More, more, more?

Primary Hazards Related to these Products

**Flammability:** gasoline, aerosols and spray paints all have low flashpoints and are easily ignited if used around an ignition source especially in confined areas. This is the biggest chemical hazard related to chemical use for grounds keepers at Colby.

**Toxicity:** None of these products are acutely toxic, however, you should avoid eating or smoking during use and wash your hands before break.

**Eye Irritants:** All of these products are considered eye irritants. If you get these products in your eyes flush with water for 15 minutes and tell your supervisor to arrange for additional medical treatment of needed.

**Skin Irritants:** Long term contact with many of these products can lead to skin irritation. Wear gloves and wash your hands frequently to prevent this.
Review / Discussion Questions:

1. Were any common products not included? What are some of the hazards of these products?
2. What do you think is the primary route of chemical exposure for groundskeepers?
3. In general, what in your opinion is the most hazardous chemical groundskeepers frequently work with? Why?

Printed Name

Signature

Questions, concerns or comments contact the EHS Director at extension 5504.