



## **Title: Flammable Liquids Safety in Construction**

**Objective:** To understand the hazards associated with flammable liquids in construction and learn safe handling practices to prevent accidents and injuries.

**Introduction:** Flammable liquids are commonly used in construction for various purposes, including cleaning, painting, and fueling equipment. However, they pose significant fire and explosion hazards if not handled properly. By being aware of the risks and following safety guidelines, we can ensure a safe working environment.

### **Key Points:**

1. **Identification:** Familiarize yourself with the types of flammable liquids used on the construction site and their associated hazards. Flammable liquids are classified based on their flashpoints and should be handled accordingly.
2. **Storage:** Store flammable liquids in designated areas away from ignition sources, heat, and direct sunlight. Use approved containers and cabinets designed for flammable liquid storage and ensure proper ventilation in storage areas.
3. **Handling and Transfer:** Use appropriate equipment and procedures when handling and transferring flammable liquids. Avoid spills and leaks by using funnels, drip pans, and spill containment measures. Never use compressed air to transfer flammable liquids.
4. **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety goggles, gloves, and flame-resistant clothing when working with flammable liquids. Ensure PPE is compatible with the specific hazards and chemicals being used.
5. **No Smoking Policy:** Enforce a strict no-smoking policy in areas where flammable liquids are stored or used. Post clear signage indicating no smoking zones and provide designated smoking areas away from flammable liquid storage areas.
6. **Fire Prevention Measures:** Implement fire prevention measures such as fire extinguishers, fire blankets, and automatic sprinkler systems in areas where flammable liquids are present. Ensure workers are trained in fire response procedures and know the location of firefighting equipment.
7. **Spill Response:** In the event of a spill or leak, follow established spill response procedures immediately. Stop the source of the spill, contain the spread of the liquid, and clean up the spill using absorbent materials designed for flammable liquids.
8. **Training and Awareness:** Provide comprehensive training to workers on the safe handling, storage, and use of flammable liquids. Raise awareness about the hazards associated with flammable liquids and the importance of following safety protocols.

**Conclusion:** Flammable liquids present significant hazards in construction, but by following safe handling practices and being vigilant, we can prevent accidents and ensure a safe work environment for everyone on the construction site.

### **Discussion Questions:**

1. What are the characteristics of flammable liquids, and why are they hazardous?
2. How should flammable liquids be stored to prevent accidents?
3. What steps should you take in the event of a flammable liquid spill?

**Stay Safe and Handle Flammable Liquids with Care!**