

Ransome HAZMAT Training Procedure:

For Field Supervisor or Experienced Trainer of hazardous material:

- When training, go over main points with this procedure and any other necessary information from the Safety Data Sheet (provides all information for each hazardous material)
- Safety Data Sheets may also be provided upon request to employees
- Please record and maintain records for training (Employee, Date & Hazardous Material)
- HAZMAT requires records be maintained for at least 3 years

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A. Liquefied Petroleum Gas (Propane):

(1) Quick Information:

- Liquid Propane is below -44°F
- Propane Vapor temperature can range from 50°F to 1000°F
- Natural pressure depends on temperature and can range from say 60 psi on a cold day to 180 psi on a hot day

(2) Methods for Safe Handling:

- Because of its cold temperature as a liquid and hot temperature as a vapor, gloves and eye protection must be worn at all times.
- Before working on any jobs requiring repair, vapor must safely be released or burned off (i.e. flare stack) to relieve the vessel of pressure. Any vessel with product inside shall not be worked on inside the shop until relieved of pressure.

(3) Procedure for Release & Evacuation Plan:

- Eye Contact:

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.

- Inhalation:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

- Skin Contact:

Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. To avoid the risk of static discharges and gas ignition, soak contaminated clothing thoroughly with water before removing it. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

- If there is a *minor leak* of some sort, you are safe unless there is a source of ignition. If the leak is immediately fixable (ex. fitting was not tight enough and leak seen with leak check) then fix it. Otherwise notify your supervisor.
- If there is a *major leak* requiring evacuation, we have two evacuation sites located at the Southeast parking lot on Maple Ave. and at the Northwest parking lot on Muscat Ave. See attached site plan on last page.
 - Call 911.
 - Fresno County Fire Department Headquarters (559) 493-4300.

B. CO₂ /Argon Compressed Gases (Stargold C10 Shield Gas Mixtures)

C. Nitrogen

D. Oxygen

E. Argon/ Hydrogen Compressed Gases (Stargon)

F. Helium/Argon/CO₂ Compressed Gases (Helistar A1025)

G. Argon

(1) Quick Information:

- Bottle contains compressed gas and pressure

(2) Methods for Safe Handling:

- All of the above bottles are loaded/unloaded on the North side of the tank shop. When bottles are empty, please place on the loading side labeled 'Empty'.
- Bottles come with a cover for the hand valve at the top of the bottle. Verify that cover is on when transporting the bottle around the facility.
- When bottle is stationary, it must be safely secured (i.e. strapped, chained, etc.).

(3) Procedure for Release & Evacuation Plan:

- If there is a *minor leak*:
- Identify with leak check and fix leak.
- Remove sources of ignition
- Make sure gas can be properly ventilated
- If leak still present, contact our supplier PraxAir (559) 445-0131

major leak:

If there is a major leak or the bottle falls or is struck to where the hand valve is broken, immediate pressure will be released causing the bottle to shoot in some direction and possibly explode. In such case requiring evacuation, we have two evacuation sites located at the Southeast parking lot on Maple Ave. and at the Northwest parking lot on Muscat Ave. (see attached site plan on last page)

- Call 911
- Fresno County Fire Department Headquarters (559) 493-4300.

H. Acetone

(1) Quick Information:

- Highly flammable liquid and vapor
- Causes serious eye irritation
- May cause drowsiness or dizziness
- Keep away from heat, hot surfaces, open flames, sparks. - No smoking
- Keep container tightly closed

(2) Methods for Safe Handling:

- Use only non-sparking tools
- Take precautionary measures against static discharge
- Avoid breathing mist, spray, and vapors
- Wash exposed skin thoroughly after handling
- Use only outdoors or in a well-ventilated area
- Wear eye protection, face protection, protective clothing, and protective gloves

(3) Procedure for Release & Evacuation Plan:

- IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
- IF INHALED: Remove person to fresh air and keep comfortable for breathing
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Call a POISON CENTER/doctor if you feel unwell
- If eye irritation persists: Get medical advice/attention

- In case of **FIRE**: Use dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2) for extinction
- In such case requiring evacuation, we have two evacuation sites located at the Southeast parking lot on Maple Ave. and at the Northwest parking lot on Muscat Ave. (see attached site plan on last page)

I. Hydrocarbons (Diesel Fuel)

(1) Quick Information:

- Highly flammable liquid and vapor and highly toxic.
- May accumulate electrostatic charge and ignite or explode
- May be fatal if swallowed and enters airways
- Harmful if inhaled
- Causes skin irritation
- May cause respiratory irritation
- May cause drowsiness or dizziness
- Suspected of causing cancer
- May cause damage to organs (thymus, liver, bone marrow) through prolonged or repeated exposure

(2) Methods for Safe Handling:

- Use only non-sparking tools
- Take precautionary measures against static discharge
- Avoid breathing mist, spray, and vapors
- Wash exposed skin thoroughly after handling
- Use only outdoors or in a well-ventilated area
- Wear eye protection, face protection, protective clothing, and protective gloves

(3) Procedure for Release & Evacuation Plan:

- IF exposed or concerned: Get medical attention
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- If skin irritation occurs: Get medical attention
- Wash contaminated clothing before reuse
- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
- Call a POISON CENTER or doctor if you feel unwell
- IF SWALLOWED: Immediately call a POISON CENTER or doctor
- Do NOT induce vomiting
- In case of fire: Use water spray, fog or regular foam for extinction
- Collect spillage

- In case of **FIRE**:
- For *small fires*, Class B fire extinguishing media such as CO₂, dry chemical, foam (AFFF/ATC) or water spray can be used.
- For *large fires*, water spray, fog or foam (AFFF/ATC) can be used. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
- **Do not use straight water streams to avoid spreading fire.**

- In such case requiring evacuation, we have two evacuation sites located at the Southeast parking lot on Maple Ave. and at the Northwest parking lot on Muscat Ave. (see attached site plan on last page)

J. Methanol

(1) Quick Information:

- Highly flammable liquid and vapor.
- May displace oxygen and cause rapid suffocation.
- Corrosive to the respiratory tract.

(2) Methods for Safe Handling:

- Wear protective gloves
- Wear eye or face protection
- Keep away from heat, sparks, open flames and hot surfaces. - No smoking
- Use only non-sparking tools
- Take precautionary measures against static discharge
- Keep container tightly closed
- Use only outdoors or in a well-ventilated area
- Avoid breathing vapor

(3) Procedure for Release & Evacuation Plan:

- IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- Call a POISON CENTER or physician if you feel unwell.
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

- In case of **FIRE**:
- Use dry chemical, CO₂, water spray (fog) or foam.

- In such case requiring evacuation, we have two evacuation sites located at the Southeast parking lot on Maple Ave. and at the Northwest parking lot on Muscat Ave. (see attached site plan on last page)

K. Propylene Glycol (Antifreeze)

(1) Quick Information:

- Hazardous in case of ingestion.
- Slightly hazardous in case of skin contact (irritant, permeator), of eye contact (irritant), of inhalation.

(2) Methods for Safe Handling:

- Keep away from high heat (Ignites at 700°F)
- Keep away from sources of ignition. Empty containers pose a fire risk, evaporate the residue under a fume hood
- Do not ingest
- Do not breathe gas/fumes/vapor/spray
- Wear suitable protective clothing
- In case of insufficient ventilation, wear suitable respiratory equipment
- Avoid contact with skin and eyes
- Keep away from incompatibles such as oxidizing agents, reducing agents, acids, alkalis, moisture

(3) Procedure for Release & Evacuation Plan:

Eye Contact:

- Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Get medical attention.

IF INGESTED:

- Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

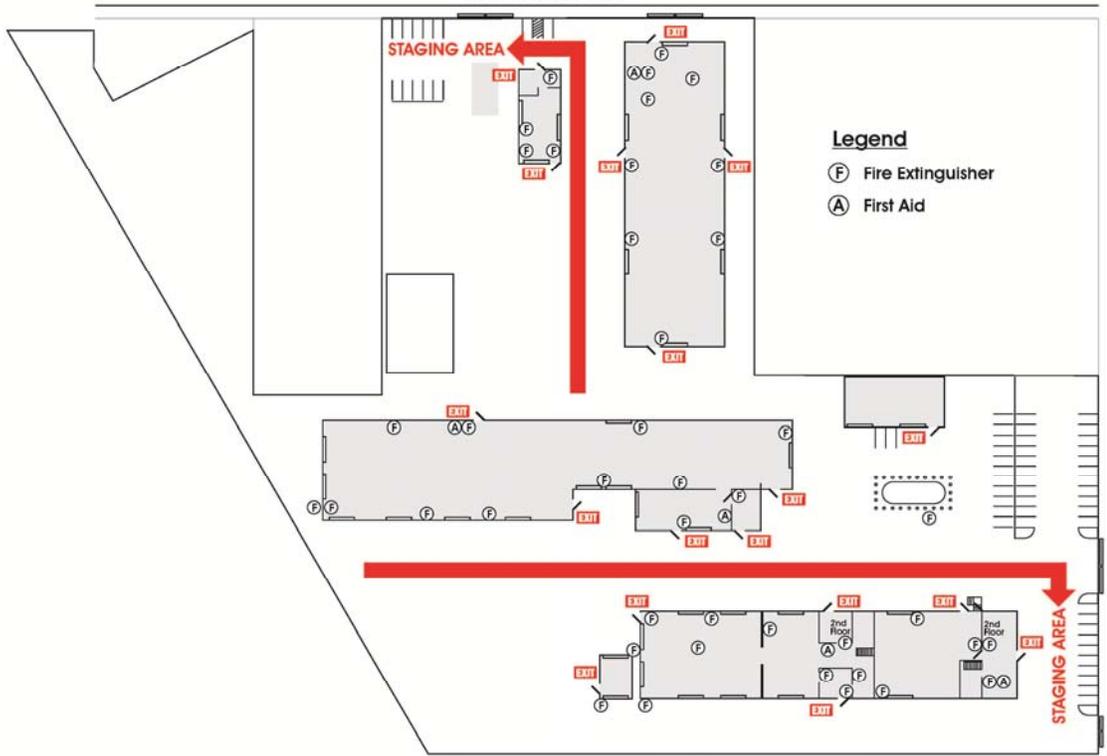
In case of **FIRE**:

- For *small fires*, use DRY chemical powder.
- For *large fires*, use water spray, fog or foam. Do not use water jet.

- In such case requiring evacuation, we have two evacuation sites located at the Southeast parking lot on Maple Ave. and at the Northwest parking lot on Muscat Ave. (see attached site plan on last page)

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2365 E. Muscat Ave.



3495 South Maple Ave.