

3i. Identify hazards of hydrazine with at least 80% accuracy.

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- Overview
  - Hydrazine Composition
  - Hazards
  - Safety Requirements

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- Description

- Clear, highly toxic, highly corrosive oily liquid fuel
- Smells like ammonia
- Flammable
- 70 percent hydrazine, 30 percent water – also know as H-70
- Fuel for Emergency Power Unit (EPU)
- EPU system serviced by Fuel Shop

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- Hazards

- Internal Exposure

- Inhalation

- Readily absorbed
      - Irritation of the lining of airway or lungs
      - Causes fluid in lungs

- Swallowing – cause damage to esophagus and stomach

- Skin contact

- Severe irritation or burns
      - Eye contact – temporary or permanent blindness

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- Hazards

- Short-term hazards

- Dizziness
    - Nausea

- Long-term hazards

- Carcinogen – may cause cancer

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- Hazards

- Long-term hazards

- Tumorigen – may cause tumors of:

- Lungs

- Kidneys

- Liver

- Nervous system

- Kidney/liver damage, yellow discoloration of skin and eyes

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- Safety Requirements

- Safe permissible exposure limit (PEL)

- 0.1 part of hydrazine vapor per 1.0 million parts of air
    - Based on 8-hour workday, 40 hours week
    - Odor threshold of hydrazine is 3-5 ppm
    - Overexposed if you detect by smell

- Clothes soaked, remove items

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- Safety Requirements
  - Emergency eye wash or shower
  - Seek immediate medical attention
  - PPE
    - Not required for flightline personnel
    - Used by fuel shop
    - Used by emergency response team



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- Hydrazine awareness
- Always check hydrazine indicator
  - Hydrazine detector pellet visible through sight glass door 3208
  - Normally mustard yellow
  - Turns deep purple or black in presence of hydrazine
- Avoid EPU exhaust area during launch test

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- Hydrazine awareness
  - If hydrazine detected by smell or sight
    - Clear area immediately
    - Inform flight supervision
    - Keep others from entering the area
- Paying attention to your actions and those around you is vital

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Complete exercise 3i