



HYDROGEN

UN 1049 (Compressed gas)

UN 1966 (Cryogenic liquid)

Shipping Name: UN 2029 Hydrogen, compressed
UN 1966 Hydrogen, refrigerated liquid
(cryogenic liquid)



WARNING! ● EXTREMELY FLAMMABLE! BURNS WITH AN INVISIBLE FLAME EVEN IN THE DARK!
● CONTAINER MAY EXPLODE WHEN EXPOSED TO FIRE!

Hazards:

- Gas may travel long distances to ignition sources and flashback
- Gas in confined areas (e.g., tanks, sewers, buildings) may explode when exposed to fire
- High pressure releases often ignite without any apparent source of ignition
- Exposure to the liquid may cause frostbite

Awareness and Operational Level Training

Response:

- Stay upwind
- Determine the extent of the problem
- Isolate the area of release or fire and deny entry
- Remove all ignition sources
- For container exposed to fire evacuate the area in all directions because of the risk of BLEVE or explosion
- Evacuate the immediate area and downwind for a large release
- Notify local health and fire officials

Description:

- Colorless compressed gas or cryogenic liquid
- No odor
- Insoluble in water
- Extremely flammable
- Gas is lighter than air

Operational Level Training Response:

RELEASE, NO FIRE:

- Stop the release if it can be done safely from a distance
- Ventilate confined area if it can be done without placing personnel at risk

FIRE:

- Do not extinguish the fire unless the flow of the gas can be stopped and any remaining gas is out of the line. Specially trained personnel may use fog lines to cool exposures and let the fire burn itself out
- Cool exposed noncryogenic containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cylinders are exposed to excessive heat from fire or flame contact, withdraw immediately to a secure location
- DO NOT APPLY WATER TO CRYOGENIC LIQUID CONTAINERS; if cryogenic liquid containers are exposed to direct flame or elevated temperatures for prolonged times, withdraw immediately to a secure location

First Aid:

- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
 - ◆ Inhalation - remove the victim to fresh air and give oxygen if available
- Seek medical attention
- Frostbite - warm injured area in very warm water
- For skin burns decontaminate with water and apply a clean dry dressing

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