



OXYGEN

UN 1072 (Compressed gas)

UN 1073 (Refrigerated liquid)

Shipping Name: Oxygen, compressed

Oxygen, refrigerated liquid (cryogenic liquid)

Other Names: Dioxygen

LOX

Liquid oxygen

Molecular oxygen



WARNING! • STRONG OXIDIZER! WILL INCREASE THE INTENSITY OF A FIRE! MAY CAUSE FIRE UPON CONTACT WITH COMBUSTIBLES!

Hazards:

- Container may BLEVE or explode when exposed to fire
- Contact with liquid may cause frostbite
- Gas is heavier than air and will collect and stay in low areas

Awareness and Operational Level Training

Response:

- Stay uphill and 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
- Notify local health and fire officials

Description:

- Colorless gas or light blue liquid; shipped and stored as a compressed gas or cryogenic liquid
- No odor
- Sinks in water and boils in water
- Nonflammable but may cause combustibles to ignite
- Gas is heavier than air and will collect and stay in low areas

Operational Level Training Response:

RELEASE, NO FIRE:

- Stop the release if it can be done safely from a distance
- Use large amounts of water well away from the material to disperse gas - contain runoff

FIRE:

- Material does not burn; fight surrounding fire with an agent appropriate for the burning material
- 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
- Seek medical attention
- Frostbite - warm injured area in very warm water

CAS: 7782-44-7