



ARSINE

UN 2188

Shipping Name: Arsine

Other Names: Arsenic hydride
Arsenic trihydride
Hydrogen arsenic



- WARNING!**
- **POISON! BREATHING THE GAS OR SKIN CONTACT CAN KILLYOU!**
 - Fire fighting gear (including SCBA) provides NO protection. If exposure occurs, remove and isolate gear immediately and thoroughly decontaminate personnel
 - **EXTREMELY FLAMMABLE!**

Hazards:

- Exposure of cylinders to fire and flame or elevated temperatures may cause cylinder to rupture or frangible disc to burst, releasing entire contents of cylinder. Ruptured or venting cylinders may rocket through buildings and/or travel a considerable distance
- Vapors may travel long distances to ignition sources and flashback
- Vapors are heavier than air and will collect and stay in low areas
- Vapors in confined areas (e.g., tanks, sewers, buildings) may explode
- Combustion products include toxic arsenic oxides
- Known to cause cancer in humans following long term exposure: contact should be avoided

Awareness and Operational Level Training Response:

- **DO NOT ATTEMPT RESCUE!**
- Stay upwind and uphill
- Determine the extent of the problem
- Remove all ignition sources
- **BACK OFF!** - Isolate a wide area around the release or fire, deny entry and call for expert help
- For container exposed to fire evacuate the area in all directions because of the risk of explosion
- Notify local health and fire officials and pollution control agencies
- If material or contaminated runoff enters waterways, notify downstream users of potentially contaminated water

Description:

- Colorless gas
- Garlic-like odor
- Slightly soluble in water
- Extremely flammable
- Vapors are 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 to disperse vapors - contain runoff
- 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 containers with large quantities of water from unattended equipment or remove intact containers if it can be done safely
- If cooling streams are ineffective (unvented container distorts, bulges or shows any other signs of deforming), withdraw immediately to a secure location

First Aid:

- **DO NOT ATTEMPT RESCUE!**
- Provide Basic Life Support/CPR as needed
- Decontaminate the victim as follows:
 - ◆ Inhalation - remove the victim to fresh air and give oxygen if available
 - ◆ Skin - remove and isolate contaminated clothing (including shoes) and wash skin with soap and large volumes of water for 15 minutes
 - ◆ Eye - rinse eyes with large volumes of water or saline for 15 minutes
- Seek medical attention
- Victims should be examined by a physician as soon as possible
- **Do NOT perform direct mouth to mouth resuscitation; use a bag/mask apparatus**
- Symptoms may be delayed
- Note to physician: causes hemolysis; chelating agents are not effective-if symptoms indicate, use exchange transfusion

CAS: 7784-42-1