

Right to Know Hazardous Substance Fact Sheet



Common Name: ARGON

Synonyms: None CAS No: 7440-37-1 Molecular Formula: Ar RTK Substance No: 0151

Description: Odorless, tasteless, and colorless asphyxiant gas

HAZARD DATA		
Hazard Rating	Firefighting	Reactivity
1 - Health	Extinguish fire using an agent suitable for type of surrounding fire. Argon itself does not burn.	Argon may react explosively with <i>liquid</i> NITROGEN. Keep temperatures below 125°F (52°C).
0 - Fire	CONTAINERS MAY EXPLODE IN FIRE.	receptemperatures below 120 1 (02 0).
0 - Reactivity	Use water spray to keep fire-exposed containers	
DOT#:	cool.	
UN 1006 (Compressed)		
UN 1951 (Cryogenic)		
ERG Guide #: 121		
Hazard Class: 2.2 (Nonflammable)		

SPILL/LEAKS

Isolation Distance:

Spill: 100 meters (330 feet) Fire: 800 meters (1/2 mile)

Stop flow of gas. If source of leak is a cylinder and the leak cannot be stopped in place, remove the leaking cylinder to a safe place in the open air, and repair leak or allow cylinder to empty.

Turn leaking cylinder with leak up to prevent escape of gas in liquid state.

Before entering a confined space where **Argon** is present, check to make sure sufficient *Oxygen* (19.5%) exists.

EXPOSURE LIMITS

Argon decreases the amount of available *Oxygen*. Routinely measure *Oxygen* content to make sure it is at least 19.5% by volume.

The Protective Action Criteria values are:

PAC-1 = 65,000 ppm PAC-2 = 230,000 ppm PAC-3 = 400,000 ppm

PHYSICAL PROPERTIES

Odor Threshold: Odorless

Flash Point: Noncombustible Vapor Density: 1.38 (air = 1)

Vapor Pressure: >760 mm Hg at 68°F (20°C)

Water Solubility: Slightly soluble

Boiling Point: -302°F (-186°C)

Melting Point: -308°F (-189°C)

Molecular Weight: 39.9

PROTECTIVE EQUIPMENT

Gloves: Insulated materials

Coveralls: Turn Out Gear

Respirator: < 19.5% Oxygen - SCBA

HEALTH EFFECTS

Eyes: Irritation and burns

Skin: Irritation and burns, contact with liquid

causes frostbite

Inhalation: Headache, rapid breathing, dizziness,

confusion, loss of coordination and judgment, unconsciousness, coma and

death

FIRST AID AND DECONTAMINATION

Remove the person from exposure.

Flush eyes with large amounts of water for at least 15 minutes. Remove

contact lenses if worn. Seek medical attention.

Immerse affected part in warm water. Seek medical attention.

Begin artificial respiration if breathing has stopped and CPR if necessary.

Transfer promptly to a medical facility.