

Common Name: ACETYLENE

Synonyms: Ethyne; Narcilene; Ethenylene; Vinylene CAS No: 74-86-2 Molecular Formula: C₂H₂ RTK Substance No: 0015 Description: Colorless, odorless gas or the commercial product may have an *Ether*-like or garlic-like odor

		HAZAR	DATA		
Hazard Rating 0 - Health 4 - Fire 3 - Reactivity DOT#: UN 1001 ERG Guide #: 116 Hazard Class: 2.1 (Flammable)	Acetylene is a FLAMMABLE GreStop flow of gas or let fire burn iPOISONOUS GASES ARE PROPactivityFIRE, including flammable Hydf: UN 1001CONTAINERS MAY EXPLODEGuide #: 116Use water spray to disperse gas exposed cylinders cool, and pro individuals attempting to stop let		Reactivi Acetylene PERCHLC CHLORAT FLUORIN Acetylene POTASSI POWDER MERCUR sensitive Acetylene HYDRIDE FERROSI Acetylene Acetylene	e reacts violently with OXIDIZING AGENTS (such a ORATES, PEROXIDES, PERMANGANATES, TES, NITRATES, CHLORINE, BROMINE and	
SPILL/LEAKS			PHYSICAL PROPERTIES		
Isolation Distance: Small Spill: 100 meters (330 feet) Large Spill: 800 meters (1/2 mile) Fire: 1,600 meters (1 mile) Keep Acetylene out of confined spaces, such as sewers, because of the possibility of an explosion. Use only non-sparking tools and equipment.		Odor Threshold: Flash Point: LEL: UEL: Auto Ignition: Vapor Density: Vapor Pressure: Specific Gravity: Water Solubility: Boiling Point: Freezing Point: Critical Temp: Ionization Potential: Molecular Weight:		226 ppm (with contaminants) Extremely flammable gas 2.5% 100% 581°F (305°C) 0.9 (air = 1) 4.04 x 10 ⁴ mm Hg at 77°F (25°C) 0.65 (water = 1) Very slightly soluble -118°F (-83°C) -113°F (-80.6°C) 97.3°F (36.3°C) 11.4 eV 26	
EXPOSURE LIMITS		PROTECTIVE EQUIPMENT			
NIOSH: 2,500 ppm, Ceiling ACGIH: Maintain 19.5% <i>Oxygen</i> content The Protective Action Criteria values are: PAC-1 = 65,000 ppm; PAC-2 = 230,000 ppm; PAC-3 = 400,000 ppm		Gloves: Coveral Respira	l s: Insula	<i>ted</i> Neoprene, Viton and Viton/Butyl <i>ted</i> materials 5% <i>Oxygen</i> or 2,500 ppm - SCBA	
HEALTH EFFECTS			FIRST AID AND DECONTAMINATION		
frostbi Skin: Conta frostbi Inhalation: Heada	ct with the <i>liquid</i> can cause	Immedia minutes while flu Immerse Begin a necessa	emove the person from exposure. mediately flush with large amounts of warm water for at least 30 inutes, lifting upper and lower lids. Remove contact lenses, if worn, hile flushing. Seek medical attention immediately. merse affected part in warm water. egin artificial respiration if breathing has stopped and CPR if ecessary. ansfer to a medical facility.		