

#258 Material Safety Data Sheet

CRAND RAPIDS Nº 49508 - 2550 28TH ST., E W

TE HOMANS OF ETET - COORS IN , COSAMAJA

ANSING, MI48906 - 2412 NO LOGAN \$1

WARSAW M 46580 - 528 E WINONA AVE

Acetylene

ISSUE DATE: April 12, 1986		TRADE NAME AND SYNONYMS Acetylene, Ethyne		CAS NUMBER 74-86-2		
	CHEMICAL NAME AND SYNONYMS ACETylene, Ethyne					
	FORMULA C2H2	MC	26.0	CHEMICAL FAI Alkyne	RILY	
	HEALTH	HAZARD D	ATA		· · · · · · · · · · · · · · · · · · ·	
TIME WEIGHTED AVERAGE EXPOSURE UN Acetylene is defined as a simp percent at normal atmospheric (ACGIH, 1984-85)	ole asphyxiant. Oxyg	jen levels s equivalent	hould be main to a partial pre	ained at gre ssure of 135	ealer than 5 mm Hg.	18 molar
SYMPTOMS OF EXPOSURE Inhalation: Low concentrations concentrations so as to exclud	(10-20% in air) cau le an adequate supp	se sympton Dly of oxyg	ns similar to the en to the lungs	at of being l cause unco	intoxicated onsciousne	. Higher ess.
TOXICOLOGICAL PROPERTIES As a narcotic gas or intoxicant Repeated exposures to tolerab sion of an adequate supply of	le levels has not sho	own deletei				
	ational Toxicology rogram	Yes ☐ No Ki	I.A.R.C. Monographs	Yes ☐ No ⊠	OSHA	Yes □ No 020
RECOMMENDED FIRST AID TREATMENT PROMPT MEDICAL ATTENTIO RESCUE PERSONNEL SHOUL BE COGNIZANT OF EXTREME Inhalation: Conscious persons	D BE EQUIPPED W FIRE AND EXPLOS	ITH SELF-C	CONTAINED BI	REATHING	APPARATI	JS AND

Judgements as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, elthough reasonable care has been taken in the preparation of such information. Purity Cylinder Gases, inc. extends no warrantes, makes no representations, and assumes no exponsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or consequences of its use. Since Purity Cylinder Gases, inc. has no control over the use of this product assumes no liability for damage or loss of product resulting from proper for impropers use or application of the product. Data Sheets may be changed from time to time. Re sure to consult the falest addition.

VENTRATION Hood with forced ventilation	To prevent accumulation above the LEL.	SPECIAL N/A	
	MECHANICAL (Gen.) In accordance with electrical codes	OTHER N/A	
PROTECTIVE GLOVES PVC or rubber in laborat	ory; as required for cutting & welding.		
EYE PROTECTION Safety goggles or glasse	38		
Safety goggles or glasse OTHER PROTECTIVE EQUIPMENT Safety shoes, safety sho			

SPECIAL PRECAUTIONS*

SPECIAL LABELING INFORMATION

DOT Shipping Name: Acetylene DOT Shipping Label: Flammable gas DOT Hazard Class: Flammable gas ID No.: UN 1001

SPECIAL HANDLING RECOMMENDATIONS

Use only in well-ventilated areas. Valve protection caps must remain in place unless container is secured with valve outlet piped to use point. Do not drag, slide or roll cylinders. Use a suitable hand truck for cylinder movement. Use a pressure reducing regulator when removing gas from the cylinder. DO NOT ALLOW THE FREE GAS TO EXCEED 30 PSIA (207 kPa) @ 70 °F (21.1 °C). Do not heat cylinder by any means to increase the discharge rate of product from the cylinder. Use a check valve or trap in the discharge line to prevent hazardous back flow into the cylinder.

SPECIAL STORAGE RECOMMENDATIONS

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Protect cylinders from physical damage. Store in cool, dry, well-ventilated area of non-combustible construction away from heavily trafficked areas and emergency exits. Do not allow the temperature where cylinders are stored to exceed 130°F (54°C). Cylinders must be stored upright and firmly secured to prevent falling or being knocked over. Full and empty cylinders should be segregated. Use a "first in-first out" inventory system to prevent full cylinders being stored for excessive periods of time. Post "No Smoking or Open Flames" signs in the storage or use area. There should be no sources of ignition in the storage or use area.

SPECIAL PACKAGING RECOMMENDATIONS

Since acetylene will explode or combust if its pressure exceeds 30 psia (207 kPa) it is shipped dissolved in acetons or dimethylformamide which is dispersed in a porous mass within the cylinder. A single cylinder of acetylene cannot be used if the volumetric demand is high, since acetone may be drawn from the cylinder with the acciviene. It has, therefore, become standard practice to limit the withdrawal of acciviene from a single cylinder to an hourly rate not exceeding one tenth of the cylinder's volumetric contents.

Most metals, except silver, copper, mercury or brasses with more than 66% copper, are compatible (non corrosive) with acetylene.