

AIRCO INC, AIRCO INDUSTRIAL GASES DIV. -- UNKNOWN -- 6830-00-203-1492

===== Product Identification =====

MSDS Date:12/31/1992

FSC:6830

NIIN:00-203-1492

Kit Part:Y

MSDS Number: BPQRF

==== Responsible Party ====

Company Name: AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

Address: 575 MOUNTAIN AVE

City: MURRAY HILL

State: NJ

ZIP: 07974-2006

Country: US

Preparer's Name: HMIS TECHNICIAN

CAGE: 00741

==== Contractor Identification ====

Company Name: AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

Address: 575 MOUNTAIN AVE

Box: City: MURRAY HILL

State: NJ

ZIP: 07974-2006

Country: US

Phone: 800-424-9300 (CHEMTREC)

CAGE: 00741

Company Name: HART EQUIPMENT CO ( )

CAGE: 48986

Company Name: HOC INDUSTRIES, INC

Address: 3511 N. OHIO

Box: 2609

City: WICHITA

State: KS

ZIP: 67219

Country: US

Phone: 316-838-4663

CAGE: 0A9L8

Company Name: KAPLAN INDUSTRIES

Address: RT 73 AND MORRIS AVE

Box: City: MAPLE SHADE

State: NJ

ZIP: 08052

Country: US

Phone: 609-779-81

## ===== Composition/Information on Ingredients =====

Ingred Name:HYDROGEN

CAS:1333-74-0

RTECS #:MW8900000

Fraction by Wt: 2.4-2.6%

Other REC Limits:NONE RECOMMENDED

Ingred Name:OXYGEN

CAS:7782-44-7

RTECS #:RS2060000

Fraction by Wt: >20.3%

Other REC Limits:NONE RECOMMENDED

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: >76.03%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:ASPHYXANT; 9293

## ===== Hazards Identification =====

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LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT APPLICABLE.

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: NONE AT ATMOSPHERIC PRESSURES.

CHRONIC: NONE.

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:NONE

Medical Cond Aggravated by Exposure:NONE

## ===== First Aid Measures =====

First Aid:NOT APPLICABLE.

## ===== Fire Fighting Measures =====

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDINGS. MATERIAL IS NOT FLAMMABLE.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPARATUS. EVACUATE AREA. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PR

ODUCTS AND VAPORS. CONTAINS HYDROGEN  
BELOW ITS LOWER EXPLOSIVE LIMIT.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM RELEASE AREA.  
Neutralizing Agent:NOT APPLICABLE.

===== Handling and Storage =====

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL  
DAMAGE. STORE AWAY FROM EXTREME HEAT AND IGNITION SOURCES. KEEP  
CYLINDER VALVES CLOSED WHEN NOT IN USE AND WHEN  
EMPTY.

Other Precautions:DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS  
WITH PROPER CAUTION. AVOID USE OF OIL IN HIGH PRESSURE SYSTEMS. USE  
PRESSURE REDUCING REGULATORS. RETURN TO MANUFACTURER OR DISTRIBUTOR  
FOR REFILLING. SEGREGATE FULL AND EMPTY CYLINDERS.

===== Exposure Controls/Personal Protection =====

Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.

Eye Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.

Other Protective Equipment:SAFETY SHOES AND  
HEARING PROTECTION.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND  
RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING  
CYLINDERS.

Supplemental Safety and Health

MSDS GENERATED BY HMIS TECHNICIAN. KAPLAN/AIRCO PROVIDED MSDS' FOR ALL  
3 GASES SEPARATELY- DID NOT REFLECT PRODUCT ON HAND. SECURE  
CYLINDERS AT ALL TIMES. NEVER USE DIRECT FLAME TO HEAT CONTENTS.  
CONTAINS HYDROGEN AT CONCENTRATION BELOW LEL. COMPOSITION COMES  
FROM DLSC TIR.

=====  
===== Physical/Chemical Properties =====

HCC:G3

Appearance and Odor:GASEOUS MIX IS ODORLESS AND COLORLESS

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

AVOID USE OF OIL IN CYLINDER SYSTEMS, AVOID OXIDIZING MATERIALS. SOME  
STEELS SUSCEPTIBLE TO HYDROGEN ATTACK.

Stability Condition to Avoid:HIGH HEAT WHICH WOULD CAUSE EXCESSIVE  
PRESSURE IN GAS CYLINDER. AVOID FLAMES,

SPARKS OR OTHER IGNITION

SOURCES.

Hazardous Decomposition Products:NONE

===== Disposal Considerations =====

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. REMOVE ALL FLAMMABLE MATERIALS FROM VICINITY. DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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