

BACHARACH INC -- CALIBRATION GAS, HYDROGEN 1.6% IN AIR -- 6830-01-360-1866

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

Product ID:CALIBRATION GAS, HYDROGEN 1.6% IN AIR

MSDS Date:04/27/1994

FSC:6830

NIIN:01-360-1866

MSDS Number: BRRLY

=== Responsible Party ===

Company Name:BACHARACH INC

Address:625 ALPHA DR

City:PITTSBURGH

State:PA

ZIP:15238

Country:US

Info Phone Num:412-963-2223 OR FAX 412-963-2091

Emergen

cy Phone Num:800-424-9300

CAGE:05083

=== Contractor Identification ===

Company Name:BACHARACH INC

Address:625 ALPHA DRIVE

Box:City:PITTSBURGH

State:PA

ZIP:15238

Country:US

Phone:412-963-2130

CAGE:05083

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

Ingred Name:AIR, REFRIGERATED LIQUID; AIR COMPRESSED (UN1002, DOT); AIR  
REFRIGERATED LIQUID (CRYOGENIC LIQUID) (UN1003) (DOT)

RTECS #:AX5271000

Fraction by Wt: 98.4%

Other REC Limits:NONE RECOMMENDED

Ingred Name:HYDROGEN

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AS:1333-74-0  
RTECS #:MW8900000  
Fraction by Wt: 1.6%  
Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INHALATION-NONE. HYDROGEN IS A  
NON-TOXIC SIMPLE ASPHYXIAN. THE CONCENTRATION OF METHANE IN THIS  
GAS IS TOO LOW TO DEPRESS OXYGEN CONCENTRATION. THIS IS A  
BREATHABLE MIXTURE. CHRONIC:  
NONE KNOWN OR EXPECTED.  
Explanation of Carcinogenicity:NONE OF THE COMPONENTS IS LISTED AS A  
CARCINOGEN OR SUSPECTED CARCINOGEN BY IRAC, NTP OR OSHA.  
Effects of Overexposure:NONE SPECIFIED BY MANUFACTURER.  
Medical Cond Aggravated by Exposure:NONE KNOWN OR EXPECTED.

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

First Aid:EYE CONTACT-NONE NEEDED. SKIN CONTACT-NONE NEEDED.  
INHALATION-NONE NEEDED. INGESTION-NONE NEEDED.

===== Fire Fighting Measure  
S =====

Flash Point:N/A (GAS)  
Lower Limits:4%  
Upper Limits:74.2%  
Extinguishing Media:THIS GAS IS NOT FLAMMABLE. COOL EXPOSED CONTAINERS  
W/WATER.  
Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR NIOSH APPROVED  
POSITIVE PRESSURE SCBA & FULL PROTECTIVE CLOTHING. USE SHIELDING TO  
PROTECT FROM CYLINDER EXPLOSION.  
Unusual Fire/Explosion Hazard:THIS MIXTURE IS BELOW THE LEL OF HYDROGEN  
& NON-FLAMMABLE. GAS CYLINDERS EXPOSED TO HEAT/FLAME MAY VENT  
RAPIDLY/EXPLODE.  
COMPRESSED AIR WILL ACCELERATE BURNING.

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

Spill Release Procedures:NONE NEEDED. THIS MATERIAL IS NON TOXIC AND  
NON FLAMMABLE.

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

Handling and Storage Precautions:DON'T STORE CYLINDERS NEAR HEAT/OPEN  
FLAME. EXPOSURE TO TEMPERATURES ABOVE 130F MAY CAUSE RUPTURE,  
SECURE CYLINDERS- DON'T DROP.  
Other Precautions:WHEN REMOVABLE CAP IS PROVIDED, STORE AND HAN

DLE WITH

CAP IN PLACE. CONTENTS UNDER HIGH PRESSURE. KEEP CYLINDERS AWAY FROM HEAT & FLAMES. FOR ADDITIONAL HANDLING RECOMMENDATIONS ON COMPRESSED GAS CYLI NDERS, CONSULT PAMPHLET P-1.

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

Respiratory Protection:NONE NEEDED.

Ventilation:NO SPECIAL VENTILATION REQUIRED.

Protective Gloves:LEATHER GLOVES RECOMMENDED FOR HANDLING.

Eye Protection:SAFETY GLASSES RECOMMENDED.

Other Protective Equipment:NONE NEEDED.

Work Hygie

nic Practices:DO NOT PUNCTURE. NEVER THROW CONTAINER INTO FIRE OR INCINERATE. DO NOT DROP OR DAMAGE. USE ONLY WITH PROPER EQUIPMENT.

Supplemental Safety and Health

THE DATA FOR BOILING POINT, MELTING POINT AND FLASH POINT IS FOR HYDROGEN. CLOSE CYLINDER VALVES WHEN CYLINDER IS NOT IN USE AND WHEN EMPTY.

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

HCC:G3

Boiling Pt:B.P. Text:-422F,-252C

Melt/Freeze Pt:M.P/F.P Text:-434F,-259C

Vapor Pres:GAS

Vapor Density

:1

Spec Gravity:0.0696

Evaporation Rate & Reference:GAS

Solubility in Water:MODERATE (FOR H2)

Appearance and Odor:COLORLESS, ODORLESS, COMPRESSED GAS IN CYLINDERS.

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

Stability Indicator/Materials to Avoid:YES

NONE KNOWN.

Stability Condition to Avoid:AVOID HEAT OR FLAMES.

Hazardous Decomposition Products:NONE KNOWN.

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

Waste Disposal Methods:DISPOSE OF IN ACCO

RDANCE W/LOCAL, STATE, &  
FEDERAL REGULATIONS. DO NOT INCINERATE CYLINDER.

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