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AIRCO DIV.OF THE BOC GROUP, INC. -- HYDROGEN-REFRIGERATED GAS -- 6830-00-474-5789

Product ID: HYDROGEN-REFRIGERATED GAS MSDS Date:07/01/1986 FSC:6830 NIIN:00-474-5789 **MSDS Number: BDZSL** === Responsible Party === Company Name: AIRCO DIV. OF THE BOC GROUP, INC. Address:575 MOUNTAIN AVE. City:MURRY HILL State:NJ ZIP:07974-2006 Info Phone Num:201-464-8100 **Emergency Phone** Num:201-464-8100 CHEMTREC 800-424-9300 CAGE:LO430 === Contractor Identification === Company Name: AIRCO DIV. OF THE BOC GROUP, INC. Address:575 MOUNTAIN AVE. Box:City:MURRY HILL State:NJ ZIP:07974-2006 Phone:201-464-8100 CAGE:LO430 Company Name: BOC GROUP INC THE, BOC GASES DIV Address:575 MOUNTAIN AVE Box:City:NEW PROVIDENCE State:NJ ZIP:07974-1209 Country:US Phone:908-464-8100 CAGE:6J576

Ingred Name:HYDROGEN CAS:1333-74-0 RTEC S #:MW8900000 Fraction by Wt: 99.999% Other REC Limits:SEE SUPP DATA

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:HYDROGEN IS NON-TOXIC AND IS DANGEROUS PHYSOLOGICALLY AS AN ASPHYXIANT. THE CRYOGENIC LIQUID WILL FREEZE TISSUES IF IN CONTACT WITH SKIN OR EYES.
Effects of Overexposure:INHALATION:EFFECTS OF OXYGEN STARVATI
ON,DROWSINESS,LOSS OF CONSCIOUSNESS. SKIN CONTACT-FROSTBITE:CHANGE OF COLOR TO GRAY OR WHITE,POSSIBLY WITH BLISTERING.
Medical Cond Aggravated by Exposure:NONE

First Aid:INHALED:REMOVE TO FRESH AIR.GIVE ARTIFICIAL RESPIRATION OR OXYGEN AS NEEDED.GET MEDICAL ATTENTION.FROSTBITE:FLUSH AFFECTED AREA WITH LUKEWARM WATER.DO NOT USE HOT WATER.GET PROMPT MEDICAL ATTENTION.

=================== Fire Fighting Me

Flash Point:GAS Lower Limits:4.0 Upper Limits:74.5 Extinguishing Media:WATER,CARBON DIOXIDE,DRY CHEMICAL Fire Fighting Procedures:IF POSSIBLE, STOP FLOW OF HYDROGEN. COOL SURROUNDING CONTAINERS WITH WATER. HYDROGEN BURNS WITH LITTLE RADIATED HEAT AND AN ALMOST INVISIBLE FLAME. Unusual Fire/Explosion Hazard:HYDROGEN IS LIGHTER THAN AIR AND WILL COLLECT NEAR CEILINGS. VENTILATE UPPER AREAS TO PREVENT FLASH BACK.

========== Accidental Release Mea

Spill Release Procedures: EVACUATE PERSONNEL AND ELIMINATE IGNITION SOURCES. USE APPROPRIATE PROTECTIVE EQUIPMENT. Neutralizing Agent: NONE

Handling and Storage Precautions:DO NOT PERMIT SMOKING OR OPEN FLAMES IN STORAGE AREA. STORE IN WELL VENTILATED AREA. SEE CGA PAMPHLETS G-5,P-12 AND OSHA 1910 SUBPART H.

Other Precautions: USE ONLY NON-SPARKING OR EXPLOSION PROOF EQUIPMENT. GROUND AL

L FIXTURES AND EQUIPMENT. FEDERAL LAW PROHIBITS SHIPING A VESSEL NOT FILLED BY THE OWNER WITHOUT HIS EXPRESS (WRITTEN) CONSENT.

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

Respiratory Protection:FOR EMERGENCY:USE ESCAPE AIR SUPPLY OR SELF CONTAINED BREATHING APPARATUS. Ventilation:HOOD WITH FORCED VENTILATION,AND OTHER LOCAL/GENERAL EXHAUST TO PREVENT ACCUMULATIONS ABOVE LEL. Protective Gloves:LOOSE FITTING,INSULATED Eye Protection:SPLASH GOGGLES/GLASSES PLUS FACE SHIELD Other Protective Equipment:SAFETY SHOES,SAFETY SHOWER Work Hygienic Practices:USE NORMAL PERSONAL HYGIENE PRACTICE. Supplemental Safety and Health MFR RECOMMENDS OXYGEN LEVEL BE MAINTAINED AT 18% OR MORE WHICH IS EQUAL TO A PARTIAL PRESSURE OF 135MM OF HYDROGEN.

HCC:G2 Boiling Pt:B.P. Text:-423F/-252C Melt/Freeze Pt:M.P/F.P Text:-435F/-259C Spec Gravity:0.071(AIR=1) Solubility in Water:VERY SLIGHT Appear ance and Odor:COLORLESS,ODORLESS GAS OR LIQUID **GAS DENSITY = 0.1005209 LB/CUFT

Stability Indicator/Materials to Avoid:YES OXIDIZERS Stability Condition to Avoid:NONE Hazardous Decomposition Products:NONE

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF UNUSED HYDROGEN. RETURN TO MFR FOR PROPER DISPOSAL.

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