View NSN Online: https://aerobasegroup.gr/nsn/6830-00-474-5789

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.

Disclaimer (provided with this informati

on by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.