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AIR PRODUCTS AND CHEMICALS, INC. -- HELIUM -- 6830-00-660-0026

Product ID:HELIUM MSDS Date:02/16/1981 FSC:6830 NIIN:00-660-0026 MSDS Number: BHDSB === Responsible Party === Company Name: AIR PRODUCTS AND CHEMICALS, INC. Box:538 City:ALLENTOWN State:PA ZIP:18105 Country:US Info Phone Num:215-481-4911 Emergency Phone Num:1-800-523-9374 IN PA:1-800-322-9092 CAGE:0074 2 === Contractor Identification === Company Name: AIR PRODUCTS AND CHEMICALS INC Address:7201 HAMILTON BLVD Box:City:ALLENTOWN State:PA ZIP:18195-1501 Country:US Phone:800-345-3148/ 800-752-1597 CAGE:00742 Company Name: FIRE KING OF SEATTLE CAGE:6X786 Company Name: OXYGEN SALES AND SERVICE INC Address:2043 S 35TH ST Box:11393 City:TACOMA State:WA ZIP:98411-0393 Country:US CAGE:5H199

Ingred Name:NO HAZARDOUS INGREDIENT

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:HELIUM IS ODORLESS/NONTOXIC, BUT MAY PRODUCE SUFFOCATION BY DILUTING THE CONCEN-TRATION OF OXYGEN IN AIR BELOW LEVELS NECESSARY TO SUPPORT LIFE. PERSONEL/RESCUEWORKERS SHOULD NOT ENTER AREAS WHERE THE OXYGEN CONCENTRATION IS BELOW 19%UNLESS PROVIDED WITH A SELF-CONTAINED BREATHING

APPARATUS/AIRLINE RESPIRATOR.

Effects of Overexposure:EXPOSURE TO OXYGEN-DEFICIENT ATMOSPHERES MAY PRODUCE DIZZINESS/NAUSEA/VOMITING/ LOSS OF CONSCIOUSNESS/DEATH. DEATH MAY RESULT FM ERRORS IN JUDGEMENT/CONFUSION/ LOSS OF CONSCIOUSNESS WHICH PREV SELF RE SCUE. AT LOW OXY CONCENT UNCONSCIOUSNESS& DEATH MAY OCCUR IN SEC'S W/O WARNING. EXTENSIVE TISSUE DAMAGE/BURNS CAN RESULT

First Aid: PERSONS SUFFERING

FM LACK OF OXYGEN S/B MOVED TO AREAS

W/NORMAL ATMOSPHERE. SELFCONTAINED BREATHING APPARATUS MAY BE REQUIRED TO PREV ASPHYXIATION OF RESCUE WORKERS.CPR/SUPP OXYGEN S/B GIVEN IF THE VICTIM IS NOT BREATHING. IF CRYOGENICLIQ/COLD BOIL-OFF GAS CONTACTS SKIN/EYES, FROZEN TISSUES S/B FLOODED/SOAKED W/ TEPID WATER. CRYOGENIC BURNS WHICH RESULT IN BLISTERING/TISSUE FREEZE-MED ATTN.

Spill Release Procedures:A

VOID CONTACT OF SKIN W/LIQUID HELIUM/COLD BOILOFFGAS. FLUSH LIQ SPILL W/WATER. VENTILATE ENCLOSED AREAS TO PREVENT FORMATION OF OXYGEN-DEFICIENT ATMOSPHERES CAUSED BY EVAP OF LIQ HELIUM OR THE RELEASE OF GASEOUS HELIUM.

Handling and Storage Precautions: USE ONLY IN WELL VENTILATED AREAS. AVOID DRAGGING/ROLLING/SLIDING CYL'S EVEN FOR SHORT DISTANCES. STORE LIQUID CONTAINERS/CYL'S IN WELL VENT AREAS. Other Precautions:UTILIZE OXYGEN COMPATIBLE INSULATING MATLS/MINIMIZE EXPOSED PIPING SUR AREAS. COMPRESSED GAS CYL'S S/N BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSEDGASES. SHIPING COMPRESSED GAS CYL W/O PE RMISION OF OWNER IS VIOLATION FED LAW.

Respiratory Protection:USE SELF-CONTAINED BREATHING APPARATUS IN OXYGEN-DEFICIENT ATMOSPHERES. CAUTION!RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN AS PHYXIATION. Ventilation:NATURAL/MECHANICAL WHERE GAS IS PRESENT. VENTS S/B SITUATED TO AVOID HIGHER THAN NORMAL CONCENT OF HELIUM IN WORK AREAS. Protective Gloves:LOOSE FITTING LEATHER WORK GLOVES Eye Protection:SAFETY GLASSES/CHEMICAL GOGGLES Other Protective Equipment:NONE Supplemental Safety and Health NK

Boiling Pt:B.P. Text:-452.1F Vapor Density:0.01114@0C Spec Gravity:0.138 AIR=1@32F Solubility in Water:0.861% BY VO L @ 68F Appearance and Odor:HELIUM IS COLORLESS AND ODORLESS IN BOTH THE GASEOUS AND LIQUID STATES.

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

Waste Disposal Methods: ALLOW LIQ HELIUM TO EVAP IN A WELL VENT LOCATION. VENT HELIUM GAS SLOWLY TO WELL VENT OUTDOOR LOCA. DO NOT

ATTEMPT TO DISPOSE OF RESIDUAL HELIUM IN COMPRESSED GAS CYL'S. RETURN CYL'S TO AIR PRODUCTS W/RESIDUAL PRESS/VALVE TIGHTLY CLOSED/CAP IN PLACE

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