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AIR PRODUCTS AND CHEMICALS, INC. -- HELIUM -- 6830-00-169-0789

Product ID:HELIUM MSDS Date:07/10/1986 FSC:6830 NIIN:00-169-0789 **MSDS Number: BHCZP** === Responsible Party === Company Name: AIR PRODUCTS AND CHEMICALS, INC. Address:NA Box:538 City:ALLENTOWN State:PA ZIP:18195 Country:US Info Phone Num:215-481-4911 Emergency Phone Num:1-800-523-9374 IN PA:1-800-322-909 2 CAGE:00742 === 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: 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:HELIUM (FORMULA HE MW:4.003) CAS:7440-59-7 RTECS #: NH6520000

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:PERSONNEL, INCLUDING RESCUE WORKERS, SHOULD NOT ENTER AREAS WHERE THE OXYGEN CONCENTRATION IS BELOW 19%, UNLESS PROVIDED W/SELFCONTAINED BREATHING APPARATUS OR AIRLINE RESPIRATOR.

Explanation of Carcinogenicity:HELIUM IS A SIMPLE ASPHYXIANT AND HAS NO TLV

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ffects of Overexposure:EXPOSURE TO OXYGEN DEFICIENT ATMOSPHERES MAY PRODUCE DIZZINESS,NAUSEA,VOMITING, LOSS OF CONSCIOUSNESS, AND DEATH. EXTENSIVE TISSUE DAMAGE OR BURNS CAN RESULT FROM EXPOSURE TO LIQUID HELIUM OR COLD H ELIUM VAPORS.

First Aid:PERSONS SUFFERING FROM LACK OF OXYGEN SHOULD BE MOVED TO AREAS WITH NORMAL ATMOSPHERES. ASSISTED RESPIRATION & SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IF VICTIM IS NO

T BREATHING. IF CRYOGENIC LIQUID OR CO LD BOIL OFF GAS CONTACTS WORKER'S SKINOR EYES, FROZEN TISSUES SHOULD BE FLOODED/SOAKED W/TEPID WATER(105-115F;41-46C) DO NOT USE HOT WATER!! SHOULD SEEK MEDICAL ATTENTION IMMEDIATELY.

Flash Point:NA Lower Limits:NA Upper Limits:NA Extinguishing Media:NA Fire Fighting Procedures:NA Unusual Fire/Explosion Hazard:NA

Spill Release Procedures: AVOID CONTACT OF SKIN W/LIQUID HELIUM OR ITS COLD BOIL OFF GAS. FLUSH LIQ SPILL W/WTR TO DISPERSE. VENTILATE ENCLOSED AREAS TO PREVENT FORMATION OF OXYGEN DEFICIENT ATMOSPHERES CAUSED BY EVAPORATION OF LIQUID HELIUM OR THE RELEASE OF GASEOUS HELIUM.

Handling and Storage Precautions: PREVENT CONTACT OF LIQ HELIUM/COLD BOILOFF GAS W/ SKIN.USE A SUITABLE HANDTRUCK.STORE LIQ CON TNR & CYLINDER IN WELL VENTL AREA.KEEP FROM SOURCES HEAT Other Precautions: STORAGE SHOULD NOT BE A HEAVY TRAFFICKED AREA. SEGREGATE FULL & EMPTY CYLINDERS.AVOID EXPOSURE TO AREAS WHERE SALT OR CORROSIVE CHEMICAL ARE PRESENT. STORAGE SHOULD BE FREE OF COMBUSTIBLE MATERIAL.A VOID ROLLING, DRAGGING, OR SLIDING CYLNDR. Respiratory Protection: SELFCONTAINED BREATHING APPARATUS IN OXYGEN DEFICIENT ATMOSPHERES. CAU TION!! RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN ASPHYXIATION. Ventilation:NATURAL OR MECHANICAL WHERE GAS IS PRESENT. VENTS SHOULD BE SITUATED TO AVOID HIGHER THAN NORML CONCENTRATION OF HELIUM Protective Gloves: LOOSE FITTING OF IMPERMEABLE AS LEATHER Eye Protection:SAFETY GLASSES/CHEMICAL GOGGLES Other Protective Equipment:NONE Supplemental Safety and Health NK Boiling Pt:B.P. Text:-452.1F Vapor Pres:NA Vapor Density:0.01114 Spec Gravity:1 ATM 0.138 Solubility in Water:1ATM0.861% BY VOLUME Appearance and Odor: HELIUM IS COLORLESS & ODORLESS IN BOTH GASEOUS & LIQUID STATES Stability Indicator/Materials to Avoid:YES NONF Stability Condition to Avoid:NONE Hazardous Decomposition Products:NONE

Waste Disposal Methods: ALLOW LIQUID HELIUM TO EVAPORATE IN A WELL

VENTILATED LOCATION REMOTE FROM WORK AREAS. DO NOTATTEMPT TO DISPOSE RESIDUAL HELIUM IN COMPRESSED GAS CYLINDERS. VENT HELIUM GAS SLOWLY TO A WELL VENTL OUTDOORS LOCATION REMOTE FROM WORK AREAS.

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