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

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

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

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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

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

Ingred Name:HELIUM (FORMULA HE MW:4.003)

CAS:7440-59-7 RTECS #:

NH6520000
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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 E
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.
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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.
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Flash Point:NA Lower Limits:NA Upper Limits:NA Extinguishing Media:NA Fire Fighting Procedures:NA Unusual Fire/Explosion Hazard:NA
====== Accidental Release Measures ====================================

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 =============

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.
====== Exposure Controls/Personal Protection ========
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
======== Physical/Chemical Properties =========
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 and Reactivity Data =========
Stability Indicator/Materials to Avoid:YES NONE Stability Condition to Avoid:NONE Hazardous Decomposition Products:NONE
Hazardous Decomposition Froducts.NONE

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

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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