msds report

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<u>HELIUM</u>

MSDS Number

BHCZP

National Stock Number

6830-00-169-0789

Product Name

HELIUM

Manufacturer

AIR PRODUCTS AND CHEMICALS INC

Product Identification

Product ID:HELIUM MSDS Date:07/10/1986 FSC:6830 NIIN:00-169-0789 MSDS Number: BHCZP

Responsible Party

AIR PRODUCTS AND CHEMICALS, INC.

NA

ALLENTOWN, PA 18195

US

Emergency Phone: 1-800-322-9092

Info Phone: 215-481-4911

Cage: 00742

Contractor

OXYGEN SALES AND SERVICE INC

11393

TACOMA, WA 98411-0393

US

800-345-3148/ 800-752-1597

Cage: 5H199

Ingredients

HELIUM

CAS: 7440-59-7

RTECS: NH6520000

Hazards

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

Effects 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

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 NOT 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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Fire Fighting

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

Accidental Release

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

Handling and Storage Precautions: PREVENT CONTACT OF LIQ HELIUM/COLD BOILOFF GAS W/ SKIN.USE A SUITABLE HANDTRUCK.STORE LIQ CONTNR & 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

Respiratory Protection:SELFCONTAINED BREATHING APPARATUS IN OXYGEN DEFICIENT ATMOSPHERES. CAUTION!! 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

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

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

Disposal

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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