# msds report

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# <u>HELIUM</u>

**MSDS Number** 

BHDSC

**National Stock Number** 

6830-00-660-0027

Product Name

HELIUM

Manufacturer

AIR PRODUCTS AND CHEMICALS INC

# **Product Identification**

Product ID:HELIUM MSDS Date:07/10/1986 FSC:6830 NIIN:00-660-0027 MSDS Number: BHDSC

# **Responsible Party**

AIR PRODUCTS AND CHEMICALS, INC.

2043 S 35TH ST

TACOMA , WA 98411-0393

US

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:HELIUM IS ODORLESS & NONTOXIC BUT MAY PRODUCE SUFFOCATION BY DILUTING THE CONCENTRATION OF OXYGEN IN AIR BELOW LEVELS NECESSARY TO SUPPORT LIFE. Explanation of Carcinogenicity:NONE Effects of Overexposure:EXPOSURE MAY PRODUCE DIZZINESS,NAUSEA, VOMITING, LOSS OF CONSCIOUSNESS, AND DEATH. EXTENSIVE TISSUE DAMAGE OR BURNS CAN RESULT FROM EXPOSURE TO LIQUID HELIUM OR COLD HELIUM VAPORS. Medical Cond Aggravated by Exposure:NONE

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 THE VICTIMIS NOT BREATHING. IF GAS CONTACTS SKIN O R EYES, FROZEN TISSUES SHOULD BE FLOODEDOR SOAKED WITH TEPID WATER. DO NOT USE HOT WATER. GET MEDICAL ATTENTION IMMEDIATELY.

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#### **Fire Fighting**

Flash Point:NA Lower Limits:NA Upper Limits:NA Extinguishing Media:NONE Fire Fighting Procedures:SELF CONTAINED BREATHING APPARATUS MAY BE REQUIRED TO PREVENT ASPHYXIATION OF RESCUE WORKERS. Unusual Fire/Explosion Hazard:HELIUM IS NONTOXIC BUT CAN ACT AS A SIMPLE ASPHYXIANT BY DISPLACING THE AMOUNT OF OXYGEN IN AIR NECESSARY TO SUPPORT LIFT.

#### **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 LIQ HELIUM OR THE RELEASE OF GASEOUSHELIUM.

#### Handling

Handling and Storage Precautions: USE PRESSURE REDUCING REGULATOR WHEN CONNECTING TOLOWER PRESSURE PIPING SYS. KEEP CYLINDER AWAY FROMSOURCES OF HEAT.SEGREGATE FULL/EMPTY CYLINDERS. Other Precautions: AVOID EXPOSURE TO AREAS WHERE SALT OR CORROSIVE CHEMICALS ARE PRESENT. AVOID USEOF CARBON STEEL/OTHER METALS WHICH BECOME BRITTLE AT LOW TEMP. AVOID DRAGGING, ROLLING, OR SLIDING EVEN FOR SHORT DISTAN CE. STORE IN NON HEAVY TRAFFIC AREAS.

# **Exposure Controls**

Respiratory Protection:USE SELF CONTAINED BREATHING APPARATUS IN OXYGEN DEFICIENT ATMOSPHERES. CAUTION!RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN ASPHYXIATION. Ventilation:NATURAL/MECHANICAL VENTILATION. Protective Gloves:LOOSE FITTING GLOVES/SUCH AS LEATHER Eye Protection:SAFETY GLASSES/CHEMICAL GOGGLES Other Protective Equipment:VENTS SHOULD BE SITUATED TO AVOID HIGHER THAN NORMAL CONCENTRATION OF HELIUM IN WORK AREAS. Supplemental Safety and Health NK

# **Chemical Properties**

Boiling Pt:B.P. Text:-452.1F Melt/Freeze Pt:M.P/F.P Text:NA Decomp Temp:Decomp Text:NA Vapor Pres:NA Vapor Density:0.01114 Spec Gravity:0.125 pH:NA Evaporation Rate & Reference:NA Solubility in Water:NA Appearance and Odor:COLORLESS AND ODORLESS IN BOTH GASEOUS AND LIQUID STATES. Percent Volatiles by Volume:NA Corrosion Rate:NA

# Stability

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

# Disposal

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



VENTILATEDLOCATION REMOTE FROM WORK AREAS. DONOT ATTEMPT TO DISPOSE OF RESIDUAL HELIUM IN COMPRESSED GAS CYLINDERS. VENT HELIUM GAS SLOWLY TO A WELL VENTI LATED OUTDOORS LOCATION REMOTE FROM WORK AREAS.

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