

HELIUM

MSDS Number

BHCWK

National Stock Number

6830-00F769995

Product Name

HELIUM

Manufacturer

AIR PRODUCTS AND CHEMICALS INC

Product Identification

Product ID: HELIUM MSDS Date: 07/10/1986 FSC:6830 NIIN:00F769995 MSDS Number: BHCWK

Responsible Party

AIR PRODUCTS AND CHEMICALS, INC.

2043 S 35TH ST

ALLENTOWN, PA 18105

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:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: EXTENSIVE TISSUE DAMAGE OR BURNS CAN RESULT FROM EXPOSURE TO LIQUID HELIUM OR COLD HELIUM VAPORS. Explanation of Carcinogenicity: HELIUM IS A SIMPLE ASPHYXIANT & HAS NO

TLV

Effects of Overexposure: MAY PRODUCE DIZZINESS, NAUSEA, VOMITING, LOSS OF CONSCIOUSNESS, & DEATH. HELIUM IS ODORLESS AND NONTOXIC, BUT MAY PRODUCE SUFFOCATION BY DILUTING THE CONCENTRA TION OF OXYGEN IN AIR BELOW LEVELS NECE SSARY TO SUPPORT LIFE.

First Aid



First Aid:REMOVE PERSON TO AREA WITH NORMAL ATMOSPHERE. ASSISTED RESPIRATION & SUPPLEMENTLOXYGEN SHOULD BE GIVEN IF THE VICTIM IS NOT BREATHING. IF CRYOGENIC LIQUID/COLD BOIL OFF GAS CONTACTS WORKER'S SKIN/EYES , FROZEN TISSUES SHOULD BE FLOODED ORSOAKED W/TEPID WATER(105-115F;41-46C). DO NOT USE HOT WATER. CRYOGENIC BURNS WHICH RESULT IN BLISTERING/DEEPER TISSUE FREEZING SHOULD BE SEEN BY A PHYSICIAN

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/LIQ HELIUM OR COLD BOILOFFGAS. FLUSH LIQ SPILL W/WATER TO DISPERSE. VENTILATEENCLSD AREAS TO PREVENT FORMATION OF OXYGEN DEFIC IENT ATMOSPHERES CAUSED BY EVAPORATION OF LIQUID HELIUM OR RELEASE OF GASEOUS HELIUM

Handling

Handling and Storage Precautions:SECURE CYLINDERS WHEN IN USE.USE SUITABLE HNDTRUCKKEEP CYLINDERS AWAY FROM SOURCES OF HEAT & HEAVY TRAFFIC AREA. 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 TEMPERATURES. USE ONLY METALS & MATERIALS COMPATIBLE W/EXT REMELY LOW TEMPERATURES.

Exposure Controls

Respiratory Protection: USE SELFCONTAINED BREATHING APPARATUS IN OXYGEN DEFICIANT ATMOSHPERE. CAUTION!! RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN ASPHYXIATION.

Ventilation: NATURAL OR MECHANICAL WHERE GAS IS PRESENT Protective Gloves: LOOSE FITTNG GLVS/IMPERMEABLE (LEATHER) Eye Protection: SAFETY GLASSES/CHEMICAL GOGGLES.

Other Protective Equipment:NONE Supplemental Safety and Health NK

Chemical Properties

Boiling Pt:B.P. Text:**SEE BELOW

Vapor Pres:NA

Vapor Density:1ATM.01114 Spec Gravity:1 ATM 0.138

Solubility in Water:1 ATM 0.861% B/VOL

Appearance and Odor: COLORLESS AND ODORLESS IN BOTH GASEOUS AND LIQUID

STATES

Stability

Stability Indicator/Materials to Avoid:YES NONE

Stability Condition to Avoid: NONE

Hazardous Decomposition Products: NONE

Conditions to Avoid Polymerization: **BOILING PT: -452.1F/-268.9C

Disposal

Waste Disposal Methods:ALL LIQUID HELIUM TO EVAPORATE IN WELL VENTILATED LOCATION REMOTE FROM WORK AREA.VENT HELIUM GAS SLOWLY TO A WELL VENTL OUTDOOR LOCATION REMOTE FROM WORK AREAS.DONOT ATTEMPT TO DISPOSE OF RESIDU AL HELIUM IN COMPRESSED GAS CYLINDERS.

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