

HELIUM

MSDS Number

BJZWN

National Stock Number

6830-00-660-0026

Product Name

HELIUM

Manufacturer

AIRCO INC AIRCO INDUSTRIAL GASES DIV

Product Identification

Product ID:HELIUM

MSDS Date:07/07/1989

FSC:6830

NIIN:00-660-0026

MSDS Number: BJZWN

Responsible Party

AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

575 MOUNTAIN AVE

MURRAY HILL , NJ 07974-2006

US

Emergency Phone: 800-424-9300(CHEMTREC)

Info Phone: 201-464-8100

Cage: 00741

Contractor

AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

MURRAY HILL, NJ 07974-2006

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Ingredients

HELIUM (SIMPLE ASPHYXIAN - MAINTAIN OXYGEN LEVELS ABOVE

CAS: 7440-59-7

RTECS: MH6520000

Fraction By Weight: 99.9%

Hazards

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

Health Hazards Acute and Chronic:HELIUM IS A SIMPLE ASPHYXIAN.

MAINTAIN OXYGEN LEVELS ABOVE 19.5% AT SEA LEVEL. HELIUM IS
NONTOXIC, BUT THE RELEASE OF A LARGE AMOUNT IN A CONFINED AREA
COULD DISPLACE THE OXYGEN IN AIR NECESSARY TO S UPPORT LIFE.

Effects of Overexposure:EFFECTS OF OVEREXPOSURE TO HIGH CONCENTRATIONS
SO AS TO DISPLACE THE OXYGEN IN THE AIR NECESSARY FOR LIFE ARE
HEADACHE, DIZZINESS, LABORED BREATHING AND EVENTUAL
UNCONSCIOUSNESS. BREATHING MIXTURES OF HELIUM WITH ADEQUATE OXYGEN
TO SUPPORTLIFE MODIFIES THE VOICE SO THAT IT IS HIGH PITCHED.

First Aid

First Aid: INHALE: PROMPT MEDICAL ATTENTION MANDATORY IN ALL OVEREXPOSURES. USE SCBA. REMOVE TO FRESH AIR. QUICK REMOVAL IS IMPORTANT. GIVE CPR/SUPPLEMENTAL OXYGEN IF UNCONSCIOUS. SYMPTOMATIC & SUPPORTIVE TREATMENT. EYES: DO NOT WASH W/HOT/TEPID WATER. NEVER USE OINTMENT OR OIL W/O MEDICAL ADVICE. OPEN EYELIDS WIDE TO ALLOW LIQUID TO EVAPORATE. IF VICTIM CANNOT TOLERATE LIGHT, PROTECT EYES W/LIGHT BANDAGE.

Fire Fighting

Extinguishing Media: NONFLAMMABLE, INERT GAS - USE ANY EXTINGUISHING MEDIA WHICH IS SUITABLE FOR THE SURROUNDING FIRE.

Accidental Release

Spill Release Procedures: EVACUATE ALL PERSONNEL FROM AFFECTED AREAS. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CONTACT CHEMTREC FOR EMERGENCY ASSISTANCE OR YOUR CLOSEST AIRCO LOCATION.

Handling

Handling and Storage Precautions: PROTECT FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL-VENT AREA AWAY FROM HEAT/HEAVILY TRAFFICKED AREAS/EMERGENCY EXITS. DO NOT LET TEMP EXCEED 130F.

Other Precautions: STORE UPRIGHT/FIRMLY SECURED. USE "FIRST IN-FIRST OUT" INVENTORY. DO NOT DRAG, SLIDE, OR ROLL CYLINDERS. USE SUITABLE HAND TRUCK FOR MOVEMENT. USE PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE PIPING OR SYSTEMS.

Exposure Controls

Respiratory Protection: POSITIVE PRESSURE AIR LINE WITH MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation: LOCAL EXHAUST TO PREVENT ACCUM OF HIGH CONC. KEEP OXYGEN LEVEL IN AIR LESS THAN 19.5%. MECHANICAL PER ELECTRICAL CODES.

Protective Gloves: ANY MATERIAL.

Eye Protection: SAFETY GOGGLES OR GLASSES.

Other Protective Equipment: SAFETY SHOES.

Supplemental Safety and Health

USE VALVE PROTECT CAPS UNLESS SECURED W/VALVE PROTECT OUTLET PIPED TO USE POINT. USE CHECK VALVE/TRAP IN DISCHARGE LINE. NEVER CARRY COMPRESSED GAS CYLINDER/CNTNR IN CRYOGENIC LIQUID FORM IN ENCLOSED SPACE. LEAK CAN RESULT IN FIRE, EXPLOS, ASPHYX, TOXIC EXPOS. HELIUM IS NON-CORROSIVE. REFILL CYLINDERS BY QUALIFIED PRODUCERS.

Chemical Properties

HCC: G3

Boiling Pt: B.P. Text: -452F, -269C

Vapor Density: 0.14 (GAS)

Solubility in Water: NEGLIGIBLE

Appearance and Odor: A COLORLESS GAS; ODORLESS

Stability

Stability Indicator/Materials to Avoid: YES

Disposal

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO AIRCO FOR PROPER DISPOSAL.

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