View NSN Online: https://aerobasegroup.kr/nsn/6830-00-660-0026 LINWELD INC -- HELIUM ______ MSDS Safety Information _____ FSC: 6830 NIIN: 00-660-0026 MSDS Date: 10/29/1992 MSDS Num: CLNCY Product ID: HELIUM MFN: 01 Responsible Party Cage: 0TEA3 Name: LINWELD INC Address: 1225 "L" STREET, SUITE 600 City: LINCOLN NE 68508 Info Phone Number: 402-477-6987 Emergency Phone Number: 402-786-5277 Resp. Party Other MSDS No.: 4 Review Ind: Y Published: Y ______ Contractor Summary _____ Cage: 0TEA3 Name: LINWELD INC Address: 1225 "L" STREET, SUITE 600 City: LINCOLN NE 68508 Phone: 402-477-6987 ______ Item Description Information _____ Item Name: HELIUM, TECHNICAL Specification Number: BB-H-1168A Type/Grade/Class: GRADE A Unit of Issue: CF UI Container Qty: 0 Type of Container: UNKNOWN ______ Ingredients ______ Cas: 7440-59-7 RTECS #: MH6520000 Name: HELIUM

Health Hazards Data

Route Of Entry Inds - Inhalation: YES

Carcinogenicity

Inds - NTP: NO

IARC: NO OSHA: NO

Effects of Exposure: PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO HELIUM. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. EFFECTS OF HIGH CONCENTRATIONS SO AS TO DISPL ACE THE OXYGEN IN THE AIR NECESSARY FOR LIFE ARE HEADACHE, DIZZINESS, LABORD BREATHING AND EVENTUAL UNCONSCIOUSNESS. BREATHING MIXTURES OF HELIUM WITH ADEQUATE OXYGEN TO SUPPORT LIFE MODIFIES THE VOIC E SOUND SO THAT IT IS HIGHER "P

ITCHED". HELIUM IS NONTOXIC BUT THE LIBERATION OF A LARGE AMOUNT IN A CONFINED AREA COULD DISPLACE THE AMOUNT OF OXYGEN IN THE AIR NECESSARY TO SUPPORT LIFE.

Explanation Of Carcinogenicity: HELIUM IS NOT LISTED IN THE IARC, NTP OR BY OSHA AS A CARCINOGEN OR POTENTIAL CARCINOGEN.

Signs And Symptions Of Overexposure: EFFECTS OF EXPOSURE TO HGIH CONCNTRATIONS SO AS TO DISPLACE THE OXYGEN IN THE AIR NECESSARY FOR LIFE ARE HEADACHE, DIZZINESS, LABORED BREATHING AND EVENTUAL UNCONSCIOUSNESS.

BREATHING MIXTURES

OF HELI UM WITH ADEQUATE OXYGEN TO SUPPORT LIFE MODIFIES THE VOICE SOUND SO THAT IT IS HIGHER PITCHED. HELIUM IS NONTOXIC BUT THE LIBERATION OF A LARGE AMOUNT IN A CONFINED AREA COULD DISPLACE THE AMOUNT OF O XYGEN IN THE AIR NECESSARY TO SUPPORT LIFE.

Medical Cond Aggravated By Exposure: PERSONS IN ILL HEALTH WHERE SUCH ILLNESS WOULD BE AGGRAVATED BY EXPOSURE TO HELIUM SHOULD NOT BE ALLOWED TO WORK WITH OR HANDLE THIS PRODUCT.

First Aid: INHALED: CONSCIOUS PERSON

S SHOULD BE ASSISTED TO AN UNCONTAMINATED

AREA AND INHALE FRESH AIR. QUICK REMOVAL FROM THE CONTAMINATED AREA IS MOST IMPORTANT. UNCONSCIOUS PERSONS SHOULD BE MOVED TO AND UNC ONTAMINATED AREA, GIVEN ASSISTED RESPIRATION AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE.

Handling and Disposal

Spill Release Procedures: EVACUATE ALL PERSONNEL FROM AF

FECTED AREA. USE

APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CONTACT YOUR CLOSEST SUPPLIER LOCATION OR CALL THE EMERGENCY TELEPHONE LIST ED HEREIN.

Waste Disposal Methods: DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER. FOR EMERGENCY DISPOSAL ASSISTANCE, CONTACT YOUR CLOSEST SUPPLIER LOCATION OR C

ALL THE EMERGENCY TEL EPHONE NUMBER LISTED HEREIN.

Handling And Storage Precautions: USE ONLY IN WELL-VENTILATED AREAS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED WITH VALVE OUTLET PIPED TO USE POINT. DO NOT DRAG, SLIDE OR ROLL CYLINDERS. USE A SUITABLE HAN D TRUCK FOR CYLINDER MOVEMENT. USE A PRESSURE REDUCING REGULATOR (SEE BELOW)

Other Precautions: WHEN CONNECTING CYLINDER TO LOWER PRESSURE (&It;3,000 PSIG) PIPING OR SYSTEMS. DO NOT HEAT CYLINDER BY ANY M

EANS TO INCREASE THE

DISCHARGE RATE OF PRODUCT FROM THE CYLINDER. USE A CHECK VALVE OR TRAP IN THE DISCHARGE LINE TO PREVENT HAZARDOUS BACK FLOW INTO THE CYLINDER. SEE OTHER INFORMATION.

Fire and Explosion Hazard Information

Flash Point Text: NA Lower Limits: NA Upper Limits: NA

Extinguishing Media: NONFLAMMABLE, INERT GAS.

Fire Fighting Procedures: IF CYLINDERS ARE INVOLVED IN

A FIRE, SAFELY RELOCATE

OR KEEP COOL WITH WATER SPRAY. Unusual Fire/Explosion Hazard: NONE.

Control Measures

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

BREATHING APPATATUS SHOULD BE AVAILABLE FOR EIVIERGENCY USE.

Ventilation: LOCAL EXHAUST. TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS SO AS TO REDUCE THE OXYGEN LEVEL IN THE AIR TO LESS THA 18 MOLAR PERCENT.

Protective Gloves: PROTECTIVE GLOVES OF ANY MATERIAL

Eye Protection: SAFETY GOGGLES OR GLASSES Other Protective Equipment: SAFETY SHOES.

Physical/Chemical Properties

HCC: G3

Boiling Point: =-268.9C, -452.1F Melt/Freeze Pt: =-271.2C, -456.5F

Vapor Pres: -450.3 Spec Gravity: .138

Evaporation Rate & Evaporation R

Solubility in Water: NEGLIGIBLE

Appearance and Od

or: COLORLESS, ODORLESS GAS.
Reactivity Data
Stability Indicator: YES Stability Condition To Avoid: NORMALLY STABLE. Materials To Avoid: NONE Hazardous Decomposition Products: NONE Hazardous Polymerization Indicator: NO Conditions To Avoid Polymerization: WILL NOT OCCUR.
Toxicological Information
Ecological Information
MSDS Transport Information
Transport Information: DOT I.D. NO. UN 1046. DOT HAZARD CLASS: DIVISION 2.2
Regulatory Information
Other Information
Other Information: STORAGE: PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXITS. DO NOT ALLOW THE TEMPERATURE WHERE CYLINDERS ARE STORE D TO EXCEED 125F. CYLINDERS SHOULD BE STORED UPRIGHT AND FIRMLY SECURED TO PREVEN FALLING OR BEING KNOCKED OVER. FULL AND EMPTY CYLINDERS SHOULD BE SEGREGATED.

STORED FOR EXCESSIVE PERIODS OF TIME.

Transportation Information

Responsible Party Cage: 0TEA3

Trans ID NO: 159211 Product ID: HELIUM

MSDS Prepared Date: 10/29/1992

Review Date: 10/09/2001

MFN: 1

Multiple KIT Number: 0 Unit Of Issue: CF Container QTY: 0

Type Of Container: UNK

NOWN

Detail DOT Information

DOT PSN Code: GZR

DOT Proper Shipping Name: HELIUM, COMPRESSED

Hazard Class: 2.2 UN ID Num: UN1046

Label: NONFLAMMABLE GAS Packaging Exception: 306

Non Bulk Pack: 302
Bulk Pack: 302,314
Max Qty Pass: 75 KG
Max Qty Cargo: 150 KG
Vessel Stow Req: A
Water/Ship/Other Req: 85

Detail IMO Information

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IMO PSN Code: HWT

IMO Proper Shipping Name: HELIUM, COMPRESSED

IMDG Page Number: 2144

UN Number: 1046 UN Hazard Class: 2(2.2) IMO Packaging Group: -Subsidiary Risk Label: -

EMS Number: 2-04
MED First Aid Guide NUM: NON

Detail IATA Information

IATA PSN Code: NCJ IATA UN ID Num: 1046

IATA Proper Shipping Name: HELIUM, COMPRESSED

IATA UN Class: 2.2

IATA Label: NON-FLAMMABLE GAS

Packing Note Passenger: 200 Max Quant Pass: 75KG Max Quant Cargo: 150KG

Packaging Note Cargo: 200

Detail AFI Information

AFI PSN Code: NCJ

AFI Proper Shipping Name: HELIUM, COMPRESSED

AFI Hazard Class: 2.2 AFI UN ID NUM: UN1046 Special Provisions: P5

Back Pack Reference: A6.3, A6.6

HAZCOM

Label

Product ID: HELIUM

Cage: 0TEA3

Company Name: LINWELD INC Street: 1225 "L" STREET, SUITE 600

City: LINCOLN NE Zipcode: 68508

Health Emergency Phone: 402-786-5277

Label Required IND: Y

Date Of Label Review: 10/09/2001

Status Code: A
Origination Code: F
Signal Word: CAUTION

Respiratory Protection IND: YES

Health Hazard: Slight Contact Hazard: None Fire Hazard: None Reactivity Hazard: None

Hazard And Precautions: PROMPT MEDICAL ATTENTION

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OVEREXPOSURE TO HELIUM. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS. EFFECTS OF HIGH CONCENTRATIONS SO AS TO DISPL ACE THE OXYGEN IN THE AIR NECESSARY FOR LIFE ARE HEADACHE, DIZZINESS, LABORD BREATHING AND EVENTUAL UNCONSCIOUSNESS. BREATHING MIXTURES OF HELIUM WITH ADEQUATE OXYGEN TO SUPPORT LIFE MODIFIES THE VOIC E SOUND SO THAT IT IS HIGHER "PITCHED". HELIUM IS NONTOXIC BUT THE LIBERATION OF A LARGE AMOUNT IN A CONFINE

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the Department of Defense

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