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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 City: LINCOLN NE 68508 Info Phone Number: 402-477-6987 Emergency Phone Number Resp. Party Other MSDS N Review Ind: Y Published: Y	Г, SUITE 600 r: 402-786-5277
Environment Summary	
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Item Description Informatio	n
Item Name : HELIUM,TECHNICAL Specification Number: BB-I Type/Grade/Class: GRADE Unit of Issue: CF UI Container Qty: 0 Type of Container: UNKNC	E A
Ingredients	
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Route Of Entry Inds - Inhal Carcinogenicit	ation: YES

y 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 " PITCHED". 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 PERSO NS 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 A FFECTED 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 CALL 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 MEANS 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 I N 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. Ventilation: LOCAL EXHAUST. TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS SO AS TO REDUCE THE OXYGEN LEVEL IN THE AIR TO LESS THA 1 8 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 & amp; Reference: NA (GAS) Solubility in Water: NEGLIGIBLE

Appearance and O

dor: 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

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Transport Information: DOT I.D. NO. UN 1046. DOT HAZARD CLASS: DIVISION 2.2

**Regulatory Information** 

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Other Information

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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 PREVENT FALLING OR BEING KNOCKED OVER. FULL AND EMPTY CYLINDERS SHOULD BE SEGREGATED. USE A FIRST IN-FIRST OUT INVENTORY SYST EM TO PREVENT FULL CYLINDERS BEING STORED FOR EXCESSIVE PERIODS OF TIME.

Transportation Information

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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: UN

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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

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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

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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** 

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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 ATTENTIO N 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 "PITCHED". HELIUM IS NONTOXIC BUT THE LIBERATION OF A LARGE AMOUNT IN A CONFIN ED AREA COULD DISPLACE THE AMOUNT OF OXYGEN IN THE AIR NECESSARY TO SUPPORT LIFE. \_\_\_\_\_ Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied warrants, states, or intends said information to have any application, use or viability by or to any person or persons outside the Department of Defense nor any person or persons contracting with any instrumentality of the United States of America and disclaims all liability for such use. Any person utilizing this instruction who is not a military or civilian employee of the United States of America should seek competent professional advice to verify and assume responsibility for the suitability of this information to their

particular situation regardless of similarity to a corresponding Department of Def ense or other government situation.