

OXNARD WELDING SUPPLIES -- HELIUM -- 6830-01-008-3431

===== Product Identification =====

Product ID:HELIUM  
MSDS Date:12/01/1992  
FSC:6830  
NIIN:01-008-3431  
MSDS Number: CCZCJ  
=== Responsible Party ===  
Company Name:OXNARD WELDING SUPPLIES  
Address:241 E HUENEME RD  
City:PORT HUENEME  
State:CA  
ZIP:93041  
Country:US  
Info Phone Num:805-488-3563  
Emergency Phone Num:805-488-3563  
CAGE:0GXH1  
=== Contractor Identification ===  
Company Name:OXNARD WELDING SUPPLIES  
Address:241 E HUENEME RD  
Box:City:PORT HUENEME  
State:CA  
ZIP:93041  
Country:US  
Phone:805-488-3563  
CAGE:0GXH1

===== Composition/Information on Ingredients =====

Ingred Name:HELIUM  
CAS:7440-59-7  
RTECS #:MH6520000  
Fraction by Wt: 100%  
OSHA PEL:N/K  
ACGIH TLV:N/K

Ingred Name:HNDLG/STOR PRECS: DEFICIENCY. STORE & USE W/ADEQ VENT.  
CLOSE VALVE WHEN NOT IN USE & WHEN EMPTY. DO NOT STRIKE (ING 3)  
RTECS #:9999999ZZ

Ingred Name:IN

G 2: ARC ON CYL. DO NOT GROUND CYL OR ALLOW TO BECOME  
PART OF ELECTRICAL CIRCUIT.

RTECS #:9999999ZZ

Incred Name:OTHER PRECS: OR OTHER TRAINED PERSON WHEN YOU MAKE YOUR  
SAFETY EVAL OF END PROD. REMEMBER, GASES & LIQS HAVE (ING 5)

RTECS #:9999999ZZ

Incred Name:ING 4: PROPERTIES WHICH CAN CAUSE SERIOUS INJURY/DEATH. BE  
SURE TO READ & UNDERSTAND ALL LABELS & OTHER (ING 6)

RTECS #:9999999ZZ

Incred Name:ING 5: INSTRUCTIONS SUPPLIED W/ALL CNTNRS OF THIS PROD.  
WHEN USED IN WELDING & C

UTTING:READ & UNDERSTAND MFR'S (ING 7)

RTECS #:9999999ZZ

Incred Name:ING 6: INSTRUCTIONS & PRECAUTIONARY LABEL ON PROD. SEE  
AMERICAN STD Z49.1 "SAFETY IN WELDING & CUTTING" PUB BY (ING 8)

RTECS #:9999999ZZ

Incred Name:ING 7: AWS & OSHA PUB 2206 (29 CFR 1910), US GOVT PRINTING  
OFFICE, WASHINGTON, DC 20402 FOR MORE DETAIL. FOR (ING 9)

RTECS #:9999999ZZ

Incred Name:ING 8: FURTHER SFTY & HEALTH INFO, REFER TO PRAXAIR'S FREE  
PUB, L-52-529. NOTE:SUITABILITY FOR USE AS (ING 10)

RTECS #:9

999999ZZ

Incred Name:ING 9:COMPONENT IN UNDERWATER BRTHG GAS MIXS IS TO BE  
DETERMINED BY OR UNDER SUPERVISION OF PERS EXPERIENCED IN (ING 11)

RTECS #:9999999ZZ

Incred Name:ING 10: USE OF UNDERWATER BRTHG GAS MIXS & FAMILIAR W/EFTS,  
METHS, FREQUENCY & DURATION OF USE, HAZS, SIDE EFTS (ING 12)

RTECS #:9999999ZZ

Incred Name:ING 11: & PRECS TO BE TAKEN. FOR SAFETY INFO ON GEN HNDLG  
OF COMPRESSED GAS CYLS, OBTAIN A COPY OF PAMPHLET P-1,(ING 13)

RTECS #:9999999ZZ

Incred Name:ING 12:"SA

FE HANDLING OF COMPRESSED GAS IN CONTAINERS" FROM  
COMPRESSED GAS ASSOC, INC, 1725 JEFFERSON DAVIS HWY,(ING 14)  
RTECS #:9999999ZZ

Ingred Name:ING 13: SUITE 1004, ARLINGTON, VA 22202. NEVER WORK ON A  
PRESSURIZED SYS. IF THERE IS A LEAK, CLOSE CYL VALVE, (ING 15)  
RTECS #:9999999ZZ

Ingred Name:ING 14: BLOW DOWN THE SYSTEM BY VENTING TO SAFE PLACE, THEN  
REPAIR THE LEAK.  
RTECS #:9999999ZZ

Ingred Name:RESP PROT: CONFINED SPACES. THE RESPIRATORY PROTECTION USE  
MUST CONFORM W/OSHA RULE  
S AS SPECIFIED IN 29 CFR 1910.134.  
RTECS #:9999999ZZ

Ingred Name:VENT: WORKER'S BRTHG ZONE. MECH (GEN): UNDER CERTAIN  
CNDTNS, GEN EXHST VENT MAY BE ACCEPTABLE PROVIDED IT IS (ING 18)  
RTECS #:9999999ZZ

Ingred Name:ING 17: ADEQ TO MAINTAIN CONC OF HAZ FUMES & GASES BELOW  
APPLICABLE TLVS IN WORKER'S BRTHG ZONE. SPECIAL/OTHER:NONE.  
RTECS #:9999999ZZ

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inha

lation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:INGESTION: AN UNLIKELY ROUTE OF  
EXPOSURE. THIS PRODUCT IS A GAS AT NORMAL TEMPERATURE AND PRESSURE.  
SKIN CONTACT/ABSORPTION: NO EVIDENCE OF ADVERSE EFFECTS FROM  
AVAILABLE INFORMATION. INHALATION: ASPHYXANT. MODERATE  
CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS,  
EXCITATION, EXCESS (EFTS OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT

Eff

ects of Overexposure:HLTH HAZ: SALIVATION, VOMITING AND  
UNCONSCIOUSNESS. EYES: NO EVIDENCE OF ADVERSE EFFECTS FROM  
AVAILABLE INFORMATION. CHRONIC: NO EVIDENCE OF ADVERSE EFFECTS FROM  
AVAILABLE INFORMATION. OTHER EFFECTS: NONE CURRENTLY KNOWN. THIS  
PRODUCT IS AN ASPHYXANT. LACK OF OXYGEN CAN CAUSE DEATH.

Medical Cond Aggravated by Exposure:A KNOWLEDGE OF THE AVAILABLE  
TOXICOLOGY INFORMATION AND OF THE PHYSICAL AND CHEMICAL PROPERTIES  
OF THE MATERIAL SUGGEST THAT OVEREXPO

SURE IS UNLIKELY TO AGGRAVATE  
EXISTING MEDICAL CONDITIONS.

===== First Aid Measures =====

First Aid:INGEST: CALL MD IMMED . THIS PROD IS A GAS AT NORMAL TEMP &  
PRESS. SKIN: WASH W/SOAP & WATER. INHAL: REMOVE TO FRESH AIR. GIVE  
ARTF RESP IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT.  
CALL MD. EYES: FLUSH W/WATER FOR AT LEAST 15 MIN. NOTE TO MD: THERE  
IS NO SPECIFIC ANTIDOTE. THIS PROD IS INERT. TREATMENT OF OVEREXP  
SHOULD  
BE DIRECTED AT THE CONTROL OF SYMPS & CLINICAL CONDITION.

===== Fire Fighting Measures =====

Extinguishing Media:HELIUM CANNOT CATCH FIRE. USE MEDIA APPROPRIATE FOR  
SURROUNDING FIRE.

Fire Fighting Procedures:USE NIOSH APPRVD SCBA & FULL PROT EQUIP .  
EVACUATE ALL PERS FROM DANGER AREA. IMMED DELUGE CNTNRS W/WATER  
SPRAY FROM MAX DIST UNTIL COOL, THEN (SUPDAT)

Unusual Fire/Explosion Hazard:HELIUM (HIGH PRESS GAS) CANNOT CATCH  
FIRE. CNTNR MAY RUPTU

RE DUE TO HEAT OF FIRE. NO PART OF A CNTNR  
SHOULD BE SUBJECTED TO TEMP HIGHER THAN 52C (SUPDAT)

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE ALL PERS FROM DANGER AREA. USE NIOSH  
APPRVD SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF  
LEAK IF W/OUT RISK. VENTILATE AREA OR MOVE LEAKING ASSEMBLY TO  
WELL-VENTILATED AREA. TEST AREA, ESPECIALLY CONFINED AREAS, FOR  
(SUPDAT)

Neutralizing Agent:NONE SPECIFIED BY MANUF  
ACTURER.

===== Handling and Storage =====

Handling and Storage Precautions:HIGH PRESS GAS. USE PIPING & EQUIP  
ADEQUATELY DESIGNED TO W/STAND PRESS TO BE ENCOUNTERED. CAN CAUSE  
RAPID SUFFOCATION DUE TO OXYGEN (ING 2)

Other Precautions:MIXTURES: WHEN TWO OR MORE GASES OR LIQUIFIED GASES  
ARE MIXED, THEIR HAZ PROPERTIES MAY COMBINE TO CREATE ADDNL,  
UNEXPECTED HAZS. OBTAIN & EVALUATE SAFETY INFO FOR EACH COMPONENT  
BEFORE YOU PRDCE MIXT URE. CON

## SULT INDUS HYGIENIST (ING 4)

### ===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPRVD AIR-PURIFYING OR AIR-SUPPLIED RESPS, AS APPROP, WHERE LOC &/OR GEN EXHST VENT IS NOT ADEQ TO KEEP WORKER EXPOS BELOW APPLIC TLVS DURING WELDING W/PROD. NIOSH APPRVD AIR SUPPLIED RESP IS REQD WHILE WORKING IN (ING 16)

Ventilation:LOC EXHST: USE LOC EXHST VENT SYS, IF NEC, TO MAINTAIN CONC OF HAZ FUMES & GASES BELOW APPLIC TLVS IN (ING 17)

Prot

ective Gloves:IMPERVIOUS GLOVES .

Eye Protection:ANSI APPRVD CHEM WORKERS GOGGLES .

Other Protective Equipment:ANSI APPROVED EYE WASH & DELUGE SHOWER .  
METATARSAL SHOES FOR CYL HNDLG. SELECT I/A/W OSHA 29 1910.132 & 1910.133.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

FIRE FIGHT PROC: MOVE CNTNRS AWAY FROM FIRE AREA IF W/OUT RISK. EXPLO HAZ: (APPROX 125F). MOST CNTNRS ARE PROVIDED W/PRESS RELIEF DEVICE DESIGNED TO VENT CONTENTS WHEN THE  
Y ARE EXPOS TO ELEVATED TEMP.

SPILL PROC: SUFFICIENT OXYGEN CONTENT PRIOR TO PERMITTING RE-ENTRY OF PERSONNEL.

### ===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:-454F,-270C

Melt/Freeze Pt:M.P/F.P Text:-458F,-272C

Vapor Pres:GAS

Vapor Density:0.138

Spec Gravity:GAS (H\*2O=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE;  
ODORLESS.

Percent Volatiles by Volume:100

### ===== Stabilit

### y and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

NONE CURRENTLY KNOWN. HELIUM IS CHEMICALLY INERT.

Stability Condition to Avoid:SEE SPECIAL PRECAUTIONS.

Hazardous Decomposition Products:NONE.

### ===== Disposal Considerations =====

Waste Disposal Methods:SLOWLY RELEASE INTO THE ATMOSPHERE. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL,

## STATE AND LOCAL REGULATIONS.

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