

UNION CARBIDE CORP LINDE DIV -- HELIUM (HIGH PRESSURE GAS) -- 6830-00-782-2656

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

Product ID:HELIUM (HIGH PRESSURE GAS)

MSDS Date:04/01/1988

FSC:6830

NIIN:00-782-2656

MSDS Number: BGSQK

=== Responsible Party ===

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:203-744-3487

Emergency

Phone Num:203-744-3487/304-744-3487

CAGE:36346

=== Contractor Identification ===

Company Name:ALTAIR/PRAXAIR

Box:UNKNOW

CAGE:0Y1H6

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357; 304-744-3487

CAGE:36346

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

Ingred Name:HELIUM

CAS:7440-59-7

RTECS #:MH6520000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

=====

Hazards Identification =====

LD50 LC50 Mixture:SIMPLE ASPHYXIAN

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:ACUTE:ASPHYXIAN. MODERATE

CONCENTRATIONS MAY CAUSE HEADCHE,DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING AND UNCONSCIOUSNESS. CHRONIC: NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE I NFORMATION.

Explanation of Carcinogenicity:NOT LISTED

Effects

of Overexposure:INHALATION: ASPHYXIAN. MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING AND UNCONSCIOUSNESS.

Medical Cond Aggravated by Exposure:OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. CALL A PHYS

ICIAN. EYES: FLUSH WITH WATER. SKIN: WASH WITH SOAP AND WATER.

NOTE TO P HYSICIAN: THERE IS NO SPECIFIC ANTIDOTE. THIS PRODUCT IS INERT. TREATMENT OF OVEREXPOSURE SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION.

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

Flash Point:NA

Autoignition Temp:Autoignition Temp Text:NA

Lower Limits:NA

Upper Limits:NA

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

Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA.IMMED DELUGE CNTNRS W/WATER SPRAY FROM MAXIMUM DISTANCE UNITL COOL THEN MOVE CNTNRS AWAY FROM FIRE AREA IF W/O RISK.

Unusual Fire/Explosion Hazard:HELIUM(HI PRESSURE GAS)CAN'T CATCH FIRE.CNTNR MAY RUPTURE DUE TO HEAT OF FIRE.NO PARAT OF CNTNR SHOULD BE SUBJ TO TEMP HIGHER THAN 52C.MOST CNTNRS ARE (SUPPLE)

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

Spill Release Procedures:EVACUATE ALL

PERSONNEL FROM DANGER AREA. USE

SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAK IF WITHOUT RISK. VENTILATE AREA OF LEAK OR MOVE LEAKING CONTAINER TO WELL VENTILATED AREA. TEST AREA FOR SUFFICIENT OXYGEN PRIOR TO ENTRY.

Neutralizing Agent:NONE

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

Handling and Storage Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR LEAK.

Other Precautions:CAUTION:HIGH PRESSURE GAS. USE PIPING & EQUIPMENT ADEQUATELY DESIGNED TO WITHSTAND PRESSURES TO BE ENCOUNTERED. CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. STORE & USE WITH ADEQUATE VENTILATION. CLOSE VALVE WHEN NOT IN USE/EMPTY.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATOR IN ACCORDANCE WITH OSHA 29 CFR 1910.134.

Ventilation:LOCAL EXH

AUST PREFERRED, MECHANICAL ACCEPTABLE.

Protective Gloves:WORK GLOVES FOR CYLINDER HANDLING.

Eye Protection:SELECT GOGGLES I/A/W OSHA 29 CFR1910.133

Other Protective Equipment:METATARSEL SHOES FOR CYLINDER HANDLING (OSHA 29 CFR1910.133.)

Work Hygienic Practices:NONE

Supplemental Safety and Health

DO NOT STRIKE ARC ON CYLINDER. FOR SAFETY INFORMATION ON GENERAL HANDLING OF COMPRESSED GAS CYLINDERS, OBTAIN A COPY OF PAMPHLET P-1, "SAFE HANDLING OF COMPRESSED GASES IN CONTAINERS" FROM THE

COMPRESSED GAS ASSOCIATION, INC. 1235 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA 22202.

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

HCC:G3

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

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

Decomp Temp:Decomp Text:NP

Vapor Pres:GAS

Vapor Density:0.138

Spec Gravity:GAS

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:NEGLIGIBLE.

Appearance and Odor:COLORLESS, ODORLESS GAS.

Percent Volatiles by Volume:100

Corrosion Ra

te:NP

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid: YES

NONE CURRENTLY KNOWN.

Stability Condition to Avoid: NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products: NONE

===== Disposal Considerations =====

Waste Disposal Methods: SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS. DISCARD
ANU PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN
ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH
FEDERAL, STATE AND LOCAL REGULATIONS.

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 this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.