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Product ID:HELIUM MSDS Date:09/01/1985 FSC:6830 NIIN:01-008-3431 MSDS Number: BGSQX === Responsible Party === Company Name: UNION CARBIDE CORP, LINDE DIV. Address:39 OLD RIDGEBURY RD City:DANBURY State:CT ZIP:06817-0001 Info Phone Num:304-744-3487 Emergency Phone Num:304-744-3487 CAGE:36346 === Contracto r Identification === 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

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

LD50 LC50 Mixture:SIMPLE ASPHYXIANT Routes

of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE: ASPHYXIANT. MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING AND UNCONSCIOUSNESS. CHRONIC: NO EVIDENCE OF ADVERSE EFFECTS FROM AVAILABL E INFORMATION. Explanation of Carcinogenicity:NOT LISTED Effects of Overexposure: INHALATION: ASPHYXIANT. MODERATE CONCENTRATIONS MAY CAUSE HEADA CHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING AND UNCONSCIOUSNESS. Medical Cond Aggravated by Exposure: OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS. First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING IS DIFFICULT. CALL A

PHYSICIAN. EYES: FLUSH WITH WATER. SKIN: WASH WITH SOAP AND WATER. NOTE TO PHYSIC

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

Flash Point:NONE

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

Fire Fighting Procedures: EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY DELUGE CONTAINERS WITH WATER SPRAY FROM MAXIMUM DISTANCE UNTIL CO

OL, THEN MOVE CONTAINERS AWAY FROM AREA.

Unusual Fire/Explosion Hazard:HELIUM CANNOT CATCH FIRE. CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. KEEP TEMPERATURE BELOW 125F. MOST CONTAINERS HAVE A PRESSURE RELIEF VALVE TO VENT CONTENTS.

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 L

EAKING CONTAINERS TO WELL-VENTILATED AREA. TEST AREA FOR SUFFICIENT OXYGEN PRIOR TO ENTRY. Neutralizing Agent:NONE

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 T O BE ENCOUNTERED. CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. STORE & USE WITH ADEQUATE VENTILAT ION. CLOSE VALVE WHEN NOT IN USE/EMPTY. Respiratory Protection: USE NIOSH/MSHA APPROVED RESPIRATOR IN ACCORDANCE WITH OSHA 29 CFR 1910.134. Ventilation: LOCAL EXHAUST PREFERRED, MECHANICAL ACCEPTABLE. Protective Gloves: WORK GLOVES FOR CYLINDER HANDLING. Eye Protection: SELECT GOGGLES I/A/W OSHA 29 CFR1910.133 Oth er Protective Equipment: METATARSEL SHOES FOR CYLINDER HANDLING (OSHA 29 CFR 1910.132 & 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 COMPRES SED GAS ASSOCIATION, INC. 1235 JEFFERSON DAVIS HIGHWAY, ARLINGTON, VA 22202. ========= Physical/Chemical Properties _____

HCC:G3 Boiling Pt:B.P. Text:-452F,-269C Vapor Pres:GAS Vapor Density:0.138 Spec Gravity:GAS Solubility in Water:NEGLIGIBLE Appearance and Odor:COLORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE; ODORLESS.

Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES NONE CURRENTLY KNOWN. HELIUM IS CHEMICALLY INERT. Stability Condition to Avoid:HIGH TEMPERATURES ABOVE 125F. Hazardous Decompo Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE WITH FEDERAL,STATE AND LOCAL REGULATION S.

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