View NSN Online: https://aerobasegroup.com/nsn/6830-01-054-8243 DIGITAL DEVELOPMENT CORPORATION. -- HELIUM -- 6830-01-054-8243 Product ID:HELIUM MSDS Date:06/13/1988 FSC:6830 NIIN:01-054-8243 MSDS Number: BLDBV === Responsible Party === Company Name: DIGITAL DEVELOPMENT CORPORATION. Address:20400 PLUMMER STREET Box:2198 City:CHATSWORTH State:CA ZIP:91311 Country:US Info Phone Num:818-882-0030 Emergency Phone Num:818-882-0030 Preparer's Name: DOD-HMIS (DGSC-SSH0 CAGE:11160 === Contractor Identification === Company Name: DIGITAL DEVELOPMENT CORPORATION Address:20400 PLUMMER STREET Box:2198 City:CHATSWORTH State:CA ZIP:91311 Phone:818-882-0030 CAGE:11160

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

Ingred Name: HELIUM (FORMULA HE MW: 4.003)

CAS:7440-59-7

RTECS #:NH6520000

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:HELIUM IS ODORLESS AND NONTOXIC BUT MAY PRODUCE SUFFOCATION BY DILUTING THE CONCENTRATION OF OXYGEN IN AIR BELOW LEVEL NECESSARY TO SUPPORT LIFE. EXTENSIVE TISSUE DAMAGE OR BURNS CAN RESULT FROM EXPOS URE TO LIQUID HELIUM OR COLD HELIUM VAPORS.

Explanation of Carcinogenicity:HELIUM IS A SIMPLE ASPHYXIANT AND HAS NO TRESHO LIMIT VALUE (TLV). HELIUM NOT LISTED AS CARCINOGEN BY NTP/IARC/OS

HA.

Effects of Overexposure:DIZZINESS,NAUSEA,VOMITING,LOSS OF CONSCIOUSNESS. DEATH MAY RESULT FROM ERRORS IN JUDGEMENT,CONFUSION,OR LOSS OF CONSCIOUSNESS WHICH PREVENT SELF-RESCUE. AT LOW OXYGEN CONCENTRATIONS UNCONSCIOUSNESS AN D DEATH MAY OCCUR IN SECONDS WITHOUT WARNING.

First Aid:ASSISTED RESPIRATION AND SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IF THE VICTIM IS NOT BREATHING. IF CRYOGENIC LIQUID OR COLD

BOIL-OFF GAS CONTACTS A WORKERS SKIN OR EYES, FROZEN TISSUES SHOULD BE FLOODED OR SOAKED WITH TEPID WATER (105-115F; 41-46C) DO NOT USE HOT WATER.CRYOGENIC BURNS WHICH RESULT IN BLISTERING OR DEEPER TISSUE FREEZING SHOULD BE SEEN PROMPTLY BY A PHYSICIAN.

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

Flash Point:NONE LISTED Lower Limits:NONE LISTED Upper Limits:NONE LISTED

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

Spill Release Pro

cedures:AVOID CONTACT OF SKIN WITH LIQUID HELIUM OR
ITS COLD BOIL-OFF GAS.FLUSH LIQUID SPILL WITH WATER TO
DISPERSE.VENTILATE ENCLOSED AREAS TO PREVENT FORMATION OF
OXYGEN-DEFICIENT ATMOSPHERES CAUSED BY EVAP ORAT OF LIQ HELIUM OR
RELEASE OF GASEOUS HELIUM.

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

Handling and Storage Precautions:PREVENT ENTRAPMENT OF LIQUID IN CLOSED SYSTEMS. USE IN WELL VENTED AREAS. AVOID EXPOSURE TO AREAS WHERE SAL OR CORR

OSIVE CHEMICALS ARE PRESENT. Other Precautions: LIQUID HELIUM IN EXPOSED PIPING CAN CAUSE AIR TO CONDENSE AND LIQUEFY. UTILIZE OXYGEN-COMPATIBLE INSULATING MATERIALS AND MINIMIZE EXPOS PIPING AREAS. AVOID USE OF CARBON STEEL AND OTHER METAL WHICH B ECOME BRITTLE A LOW TEMPERATURES. ===== Exposure Controls/Personal Protection ======== Respiratory Protection: USE SELF-CONTAINED BREATHING APPARATUS IN OXYGEN-DEFICIENT ATMOSPHERES. CAUTION-AIR PURIFYING RESPIRATORS WILL NOT FUNCTION. THEIR USE MAY RESULT IN ASPHYXIATION. Ventilation: NATURAL OR MECHANICAL WHERE GAS IS PRESENT. Protective Gloves: LEATHER IS RECOMMENDED. Eve Protection: SAFETY GLASSES-SEE BELOW. Other Protective Equipment: NONE. Supplemental Safety and Health EYE-SAFETY GLASSES ARE RECOMMENDED WHEN HANDLING HIGH-PRESSURE CYLINDERS, USE CHEMICAL GOGGLES OR A FACESHIELD WITH SAFETY GLASSES WHEN HANDLING LIQUID. VENTILATION-VENTS SHOULD BE SITUATED TO AVOID HI GHER THAN NORMAL CONCENTRA TION OF HELIUM IN WORK AREA. MSDS COPIED FROM ANOTHER HELIUM MSDS. CONTRACT BEFORE HCS. ======== Physical/Chemical Properties =========== HCC:G3 Boiling Pt:B.P. Text:-452F/268C Vapor Density:32F0.01114 Spec Gravity:23F(OC)1ATM.138 Solubility in Water:68F(20C)1 ATM 0.861% Appearance and Odor: HELIUM IS COLORLESS AND ODORLESS IN BOTH GASEOUS AND LIQUID STATES. ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:Y ES NONE Stability Condition to Avoid: NONE Hazardous Decomposition Products: NONE ======= Disposal Considerations ============

Waste Disposal Methods:ALLOW LIQUID HELIUM TO EVAP IN A WELL-VENT LOCATION REMOTE FROM WORK AREAS. VENT HELIUM GAS SLOWLY TO A WELL-VENT OUTDOOR LOCATION REMOTE FOR WORK AREA.DO NOT ATTEMPT TO DISPOSE OF RESIDUAL HELIUM IN COMPRESSE GAS CYLINDERS.

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