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CRYOGENIC RARE GAS LABS -- HELIUM/OXYGEN/NITROGEN/KRYPTON-85 GAS MIXTU - 5840-01-274-6624

Product ID:HELIUM/OXYGEN/NITROGEN/KRYPTON-85 GAS MIXTU MSDS Date:05/25/1988 FSC:5840 NIIN:01-274-6624 **MSDS Number: BRQSL** === Responsible Party === Company Name: CRYOGENIC RARE GAS LABS Address:913 COMMERCE CIRCLE **City:HANAHAN** State:SC ZIP:29406 Country:US Info Phone Num:8 03-747-0956 Emergency Phone Num:803-747-0956/800-424-9300(CHEMTREC) CAGE:7U103 === Contractor Identification === Company Name: CRYOGENIC RARE GAS Address:913 COMMERCE CIRCLE Box:City:HANAHAN State:SC ZIP:29406 Country:US Phone:843-747-0956 CAGE:7U103 Company Name: EG AND G INC/ELECTRIC COMPONENTS DIV Address:35 CONGRESS ST Box:City:SALEM State:MA ZIP:01970-5507 Country:US CAGE:7T714

Ingred Name: HELIUM/OXYGEN/NITROGEN/KRYPTON-85

GAS MIXTURE Fraction by Wt: 100% Other REC Limits:1250 MREM/QUARTER

LD50 LC50 Mixture: TLV IS 1250 MILLIREM/QUARTER, WHOLE BODY Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:UNKNOWN IARC:UNKNOWN OSHA:NO Health Hazards Acute and Chronic: ACUTE- OXYGEN BELOW 21% MAY CAUSE DIZZINESS, HEADACHE, NAUSEA & LOSS OF CONSCIOUSNESS. OXYGEN ABOVE 21% MAY CAUSE ASPHYXIATION, CHEST PAIN AND A VARIETY OF CENTRAL NERVOUS SYSTEM MANIFESTATIONS INCLUD ING TINGLING EXTREMITIES. RADIATION SICKNESS MAY CAUSE NAUSEA, VOMITING, DIARRHEA AND DEPRESSION, CHRONIC- NONE LISTED. Explanation of Carcinogenicity:NONE SPECIFIED BY MANUFACTURER. Effects of Overexposure: OXYGEN BELOW 21% MAY CAUSE DIZZINESS, HEADACHE, NAUSEA & LOSS OF CONSCIOUSNESS. OXYGEN ABOVE 21% MAY CAUSE CHEST PAIN. RADIATION MAY CAUSE NAUSEA, VOMITING, DIARRHEA AND **DEPRESSION**. Medical Cond Aggravated by E xposure:NONE SPECIFIED BY MANUFACTURER. First Aid:INHALATION: MOVE VICTIM TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION AND, IF NEEDED, OXYGEN. GET MEDICAL AID. RADIATION SICKNESS: GET MEDICAL AID IMMEDIATELY.

Extinguishing Media:NONE SPECIFIED BY MANUFACTURER. Fire Fighting Procedures:OXYGEN IS NON-FLAMMABLE BUT SUPPORTS AND VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES. Unusual Fire/Explosion Hazard:SOME MATERIALS WHICH ARE NONFLAMMABLE IN AIR WILL BURN IN AN OXYGEN-ENRICHED ATMOSPHERE.

Spill Release Procedures:SHUT OFF THE FLOW OF GAS. VENTILATE THE AREA. KRYPTON-85 WILL DISPERSE. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions

:STORE AND USE CYLINDERS IN WELL-VENTILATED AREA AWAY FROM EXCESSIVE HEAT. Other Precautions: MAKE SURE ALL RESIDUAL VAPORS ARE REMOVED PRIOR TO BEGINNING REPAIR AND MAINTENANCE. MOVE CYLINDERS WITH A HAND TRUCK. Respiratory Protection:WEAR NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS IF NEEDED. Ventilation:MECHANICAL Protective Gloves: LEATHER WORK GLOVES Eve Protection:SAFETY GOGGLES Other Protective Equipment :EYE WASH STATION, QUICK DRENCH SHOWER AND SAFETY SHOES Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health HELIUM, NITROGEN AND KRYPTON-85 ARE NON- TOXIC, BUT EACH MAY ACT AS A SIMPLE ASPHYXIANT. OXYGEN IS NONTOXIC. KRYPTON-85 IS A RADIOACTIVE ISOTOPE. RADIATION EMITTED: BETA PARTICLES AT 0.67 MEV AND GAMM A RAYS AT 0.52 MEV. HCC:A1

So lubility in Water:SLIGHT Appearance and Odor:COLORLESS, ODORLESS GAS WITH HALF LIFE OF 10.76 YEARS Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES OTHER RADIOACTIVE MATERIALS, FLAMMABLES Stability Condition to Avoid:EXCESSIVE HEAT, FIRE Hazardous Decomposition Products:BETA PARTICLES AND GAMMA RAYS Conditions to Avoid Polymerization:KEEP AWAY FROM EXCESS HEAT

====== Disposal Consi

derations ===============

Waste Disposal Methods:REPLACE THE CYLINDER VALVE OUTLET PLUG. REPLACE THE CYLINDER CAP. IF NO LEAKS ARE OBSERVED, RETURN THE CYLINDER TO YOUR SUPPLIER.

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