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

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

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:803

-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

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

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

| Fraction by Wt: 100% Other REC Limits:1250 MREM/QUARTER |
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| ====================================== |
| 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 Exp |
| osure: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. |
| ======== Accidental Release Measures ========== |
| Spill Release Procedures:SHUT OFF THE FLOW OF GAS. VENTILATE THE AREA. KRYPTON-85 WILL DISPERSE. Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER. |
| ====================================== |

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Handling and Storage Precautions:S

TORE 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. ===== Exposure Controls/Personal Protection ======== 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:E YE 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. ========= Physical/Chemical Properties =========== HCC:A1 Solu bility in Water:SLIGHT Appearance and Odor: COLORLESS, ODORLESS GAS WITH HALF LIFE OF 10.76 **YEARS** Percent Volatiles by Volume:100 ======== Stability and Reactivity Data ========== 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 Conside

rations =========

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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