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CRYOGENIC RARE GAS LABS -- HELIUM/OXYGEN/NITROGEN/KRYPTON-85 GAS MIXTU

5920-00-827-5751

Product ID:HELIUM/OXYGEN/NITROGEN/KRYPTON-85 GAS MIXTU

MSDS Date: 05/25/1988

FSC:5920

NIIN:00-827-5751

MSDS Number: BPPMH === 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 & G INC, ELECTRON DEVICES GROUP

Address:35 CONGRESS

Box:City:SALEM

State:MA

ZIP:01970-5507 Country:US

Phone:516-643-2120

CAGE:25506

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

Ingred Name: HELIUM-OXYGEN MIXTURE

С

AS:58933-55-4 RTECS #:MH6550000 Other REC Limits: NONE RECOMMENDED Ingred Name: NITROGEN CAS:7727-37-9 RTECS #:QW9700000 Other REC Limits: NONE RECOMMENDED ACGIH TLV:ASPHYXIANT; 9293 Ingred Name:KRYPTON-85 (30 MICROCURIES MAXIMUM) Other REC Limits: NONE RECOMMENDED LD50 LC50 Mixture:TLV = 1250 MILLIREM/QUARTER (WHOLE BODY) Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Health Hazards Acute and Chronic: ACUTE - OXYGEN BEL **OW 21 PERCENT MAY** CAUSE DIZZINESS, HEADACHE, NAUSEA, AND LOSS OF CONSCIOUSNESS. OXYGEN ABOVE 21 PERCENT MAY CAUSE CHEST PAIN. RADIATION MAY CAUSE NAUSEA, VOMITING, DIARRHEA, AND DEPR ESSION. CHRONIC - NONE KNOWN. Effects of Overexposure: OXYGEN BELOW 21 PERCENT MAY CAUSE DIZZINESS, HEADACHE, NAUSEA, AND LOSS OF CONSCIOUSNESS. OXYGEN ABOVE 21 PERCENT MAY CAUSE CHEST PAIN. RADIATION MAY CAUSE NAUSEA, VOMITING, DIARRHEA, AND DEPRESSION. Medical Cond Aggravated by Exposure: NON **E KNOWN** 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 HELP IMMEDIATELY.

Fire Fighting Procedures: OXYGEN IS NON-FLAMMABLE BUT SUPPORTS AND VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES. Unusual Fire/Explosion Hazard:

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.
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Handling and Storage Precautions:STORE AND USE CYLINDERS IN WELL-VENTILATED AREA AWAY FROM EXCESSIVE HEAT. Other Precautions:MAKE SURE ALL RESIDUAL VAPORS ARE REM OVED 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 Eye Protection:SAFETY GOGGLES Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER, SAFETY SHOES Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOM MENDED 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 (30 MICROCURIES MAXIMUM). ===================================
HCC:A2
Solubility in Water:SLIGHT Appearance and Odor:COLORLESS, ODORLESS GAS WITH HALF LIFE OF 10.76 YEARS Percent Volatiles by Volume:100 ===================================

SOME MATERIALS WHICH ARE NONFLAMMABLE IN

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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

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

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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