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AIR PRODUCTS AND CHEMICALS INC. -- HELIUM -- 6830-00-660-0027

Product ID:HELIUM MSDS Date:03/01/1982

FSC:6830

NIIN:00-660-0027

MSDS Number: BRQDQ === Responsible Party ===

Company Name: AIR PRODUCTS AND CHEMICALS INC.

Box:538

City:ALLENTOWN

State:PA ZIP:18105 Country:US

Info Phone Num:215-481-4911

Emergency Phone Num:215-481-4911

CAGE:00742

=== Contractor Ident

ification ===

Company Name: AIR PRODUCTS AND CHEMICALS INC

Address:7201 HAMILTON BLVD

Box:City:ALLENTOWN

State:PA

ZIP:18195-1501 Country:US

Phone:800-345-3148/800-752-1597

CAGE:00742

Company Name: GENERAL ELECTRIC CORPORATE RESEARCH & DEVELOPMENT

Address: RIVER RD BLDG K-1

Box:8

City:SCHENECTADY

State:NY ZIP:12301 Country:US

Phone:518-387-5000

CAGE:28339

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

Ingred Name: HELIUM GAS

CAS:7440-59-7

RTECS #:MH6520000 Fraction by Wt: >99 Other REC Limits: SIMPLE ASPHXIANT

========= Hazards Identification =============== Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INHALATION: HELIUM IS A SIMPLE ASPHYXIANT, IT CAN DISPLACE AIR IN ENCLOSED SPACES LOWERING OXYGEN LEVELS NECESSARY FOR LIFE. BREATHING MIXTURES OF HELIUM AND AIR WITH OXYGEN LEVEL BELOW 15% MAY RESUL T IN LOSS OF COORDINATION, **CONFUSIO** N AND COLLAPSE. CONTACT WITH COLD GAS OR LIQUID MAY CAUSE FREEZE BURNS. Effects of Overexposure: FATIGUE, SLEEPINESS, LOSS OF COORDINATION, CONFUSION, COLLAPS, FREEZE BURNS. Medical Cond Aggravated by Exposure: BREATHING PROBLEMS, HYPOXIA. First Aid:INHALE: GET PROMPT MEDICAL ATTENTION IN ALL OVEREXPOSURE CASES. USE SCBA. QUICKLY REMOVE TO FRESH AIR. IF UNCONSCIOUS GIVE CPR AND OXYGEN. SKIN/EYE:IN CASE OF FREEZI NG OR CRYOGENIC "BURNS" CAUSED BY R APIDLY EVAPORATING LIQUID, WASH WITHT LOTS OF TEPID WATER, PROTECT EYES W/LIGHT BANDAGE IF CANNOT TOLERATE LIGHT. ============ Fire Fighting Measures ========================= Flash Point: NON-FLAMMABLE Extinguishing Media: NONFLAMMABLE, INERT GAS. USE ANY EXTINGUISHING MEDIA WHICH IS SUITABLE FOR THE SURROUNDING FIRE. Fire Fighting Procedures: FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING AND SELF-CONTAINED BREATHING APPARATUS. Unusual F ire/Explosion Hazard: CYLINDERS MAY EXPLODE IN THE HEAT OF FIRE. CYLINDERS SHOULD BE COOLED WITH WATER TO PREVENT RUPTURE OF STORAGE CYLINDERS. ========== Accidental Release Measures =============== Spill Release Procedures: EVACUATE ALL PERSONNEL FROM AFFECTED AREAS. USE APPROPRIATE PROTECTIVE EQUIPMENT (WEAR SCBA). STOP LEAK IF IT CAN BE DONE SAFELY. CONTACT LOCAL SAFETY OFFICER FOR EMERGENCY ASSISTANCE. ========= Handling and Storage ========

Handling and Storage Precautions:STORE IN A WELL-VENTILATED, LOW-FIRE AREA. PROTECT CONTAINERS FROM PHYSICAL DAMAGE. FOLLOW GENERAL RULES FOR HANDLING COMPRESSED GASES.

Other Precautions:DO NOT DRAG, SLIDE, ROLL CYLINDERS. USE HANDTRUCK FOR MOVING. USE PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE PIPING/SYSTEMS. PROTECT CYLINDERS FROM PHYSICAL DAMAGE. USE CHECK VALVE/TRAP IN DISCHARGE LINE.

====== Exposure Controls/Personal Prote ction ========

Respiratory Protection: POSITIVE PRESSURE AIR LINE WITH MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation:LOCAL EXHAUST TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS SO AS TO REDUCE OXYGEN LEVEL IN AIR TO LESS THAN 19.5%.

Protective Gloves: INSULATING GLOVES

Eye Protection: SAFETY GOGGLES.

Other Protective Equipment:SAFETY SHOES. PROTECTIVE CLOTHING AS REQUIRED BY USE CONDITIONS.

Work Hygienic Practices: EQUIPMENT

SHOULD BE CHECKED FOR LEAKS BEFORE

USING IN CONFINED AREA.

Supplemental Safety and Health

STORE IN COOL, DRY, WELL-VENT AREA OF NON- COMBUSTIBLE CONSTRUCTION AWAY FROM HEAVILY TRAFFICKED AREAS/EMERGENCY EXITS. KEEP STORAGE TEMPS BELOW 130 F. STORE UPRIGHT & FIRMLY SECURED. USE "FIRST IN-FI RST OUT" INVENTORY. DON'T TRANSPORT CYLINDER OF CRYOGENIC LIQUID IN ENCLOSED SPACE. GE P/N: D27A11.

======== Physical/Chemical Properties =========
HCC:G3 Boiling Pt :B.P. Text:-452F,-269C Vapor Density:0.138 Solubility in Water:NEGLIGIBLE Appearance and Odor:COLORLESS, ODORLESS GAS OR A CRYOGENIC LIQUID. Percent Volatiles by Volume:100
======== Stability and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES
DO NOT STORE CRYOGENIC LIQUID IN CARBON STEEL CYLINDERS.
Stability Condition to Avoid:HIGH TEMPERATURES.
Hazardous Decomposition Products:NONE

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

aste Disposal Methods:REMOVE LEAKING CYLINDERS OUTDOORS, ALLOW GAS TO DISCHARGE AT A MODERATE RATE. CLOSE VALVE AND RETURN TO SUPPLIER MARKED DEFECTIVE. FOLLOW FEDERAL, STATE AND LOCAL REGULATIONS.

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