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

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

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 Identifi

cation ===

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%

O

ther REC Limits:S	IMPLE ASPHXIANT
=========	====== Hazards Identification ==============
Reports of Carcino Health Hazards Ad ASPHYXIANT, LEVELS NECE WITH OXYGEN CONFUSION A ND COLLAPSE. O FREEZE BURN Effects of Overexp CONFUSION, O	CONTACT WITH COLD GAS OR LIQUID MAY CAUSE
==========	======= First Aid Measures ===============
CASES. USE S CPR AND OXY OR CRYOGENIC CAUSED BY R	GET PROMPT MEDICAL ATTENTION IN ALL OVEREXPOSURE CBA. QUICKLY REMOVE TO FRESH AIR. IF UNCONSCIOUS GIVE GEN. SKIN/EYE:IN CASE OF FREEZING "BURNS" APIDLY EVAPORATING LIQUID, WASH WITHT LOTS OF TEPID ECT EYES W/LIGHT BANDAGE IF CANNOT TOLERATE LIGHT.
==========	====== Fire Fighting Measures ====================
MEDIA WHICH Fire Fighting Proc AND SELF-COI Unusual Fire /Explosion Hazard	ia:NONFLAMMABLE, INERT GAS. USE ANY EXTINGUISHING IS SUITABLE FOR THE SURROUNDING FIRE. edures:FIRE FIGHTERS SHOULD WEAR PROTECTIVE CLOTHING NTAINED BREATHING APPARATUS. :CYLINDERS MAY EXPLODE IN THE HEAT OF ERS SHOULD BE COOLED WITH WATER TO PREVENT RUPTURE OF
	==== Accidental Release Measures ===========
USE APPROPE	redures:EVACUATE ALL PERSONNEL FROM AFFECTED AREAS. RIATE PROTECTIVE EQUIPMENT (WEAR SCBA). STOP LEAK IF IT SAFELY. CONTACT LOCAL SAFETY OFFICER FOR EMERGENCY
=========	====== 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 Protecti on =======

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 SH

OULD 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

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 ===========

Wast

e 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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