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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 Identif

ication ===

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				
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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, CONFUSION				
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.				
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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 FREEZING 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 Fir e/Explosion Hazard:CYLINDERS MAY EXPLODE IN THE HEAT OF FIRE. CYLINDERS SHOULD BE COOLED WITH WATER TO PREVENT RUPTURE OF STORAGE CYLINDERS.				
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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 Protect ion =======

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 S

HOULD 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 ==========
ICC:G3
oiling Pt:B
P. Text:-452F,-269C
apor Density:0.138
olubility in Water:NEGLIGIBLE

Appearance and Odor: COLORLESS, ODORLESS GAS OR A CRYOGENIC LIQUID.

Percent Volatiles by Volume:100

	Stability and	Reactivity Data	
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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	
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te 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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