

AIR PRODUCTS AND CHEMICALS INC -- HELIUM, COMPRESSED -- 6830-00-001-7989

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

Product ID:HELIUM, COMPRESSED

MSDS Date:03/01/1994

FSC:6830

NIIN:00-001-7989

MSDS Number: CBQBN

=== Responsible Party ===

Company Name:AIR PRODUCTS AND CHEMICALS INC

Address:7201 HAMILTON BLVD

City:ALLENTOWN

State:PA

ZIP:18195-1501

Country:US

Info Phone Num:800-752-1597

Emergency Phone Num:8

00-523-9374; 610-481-7711

CAGE:00742

=== Contractor Identification ===

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

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

Ingred Name:HELIUM

CAS:7440-59-7

RTECS #:MH6520000

Fraction by Wt: >99%

OSHA PEL:N/K

ACGIH TLV:N/K

Ingred Name:VOLATILE ORGANIC COMPOUND: N/A (SCAQMD RULE)

RTECS #:9999999VO

OSHA PEL:N/K

ACGIH TLV:N/K

Inged Name:HNDLG/STOR PRECS: BE FREE OF COMBUST MATLS. STORAGE SHOULD BE AWAY FROM HEAVILY TRAVELED AREAS & EMER EXITS. (ING 4)
RTECS #:9999999ZZ

Inged Name:ING 3: AVOID AREAS WHERE SALT/OTHER CORR MATLS ARE PRESENT. VALVE PROT CAPS & VALVE OUTLET SEALS SHOULD REMAIN (ING 5)
RTECS #:9999999ZZ

Inged Name:ING 4: ON CYLS NOT CONNECTED FOR USE. SEPARATE FULL FROM EMPTY CYLS. AVOID EXCESS INVENTORY & STORAGE TIME. USE (ING 6)
RTECS #:9999999ZZ

Inged Name:ING 5: FI
RST-IN FIRST-OUT SYSTEM. KEEP GOOD INVENTORY RECORDS.
RTECS #:9999999ZZ

Inged Name:OTHER PRECS: DISCHARGE GAS FROM CYL. USE CHECK VALVE TO PVNT REVERSE FLOW INTO CYL. DO NOT OVERHEAT CYL TO INCR (ING 8)
RTECS #:9999999ZZ

Inged Name:ING 7:PRESS/DISCHARGE RATE. IF USER EXPERIENCES ANY DFCLTY OPERATING CYL VALVE, DISCONTINUE USE & CNTCT SUPPLIER.(ING 9)
RTECS #:9999999ZZ

Inged Name:ING 8: NEVER INSERT AN OBJECT (EG WRENCH, SCREWDRIVER, PRY BAR, ETC) INTO VALVE CAP OPENINGS. DO
ING SO MAY DMG (ING 10)
RTECS #:9999999ZZ

Inged Name:ING 9: VALVE CAUSING LEAK TO OCCUR. USE ADJUSTABLE STRAP-WRENCH TO REMOVE OVER-TIGHT OR RUSTED CAPS. HELIUM IS (ING 11)
RTECS #:9999999ZZ

Inged Name:ING 10: COMPATIBLE W/ALL COMMON MATLS OF CONSTRUCTION. PRESS REQS SHOULD BE CONSIDERED WHEN SELECTING MATLS & (ING 12)
RTECS #:9999999ZZ

Inged Name:ING 11: DESIGNING SYSTEMS. ALWAYS STORE & HANDLE COMPRESSED GASES I/A/W COMPRESSED GAS ASSOC INC (703-412-0900) (ING 13)
RTECS #

:9999999ZZ

Ingred Name:ING 12: PAMPHLET CGA P-1, SAFE HNDLG OF COMPRESSED GASES IN
CNTNRS. LOC REGS MAY REQ SPECIFIC EQUIP FOR STORAGE (ING 14)
RTECS #:9999999ZZ

Ingred Name:ING 13: OR USE. CAUTION: COMPRESSED GAS CYLS SHALL NOT BE
REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSED (ING 15)
RTECS #:9999999ZZ

Ingred Name:ING 14: GASES. SHIPMENT OF CYL WHICH HAS NOT BEEN FILLED BY
OWNER OR W/OWNER'S WRITTEN CONSENT IS VIOLATION OF FED LAW.
RTECS #:9999999ZZ

Ingred Name:VENT: MONI
TORED TO ENSURE THEY DO NOT FALL BELOW 19.5%.
RTECS #:9999999ZZ

===== Hazards Identification =====

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INHAL: SIMPLE ASPHY. HELIUM IS NONTOX
BUT MAY CAUSE SUFFOCATION BY DISPLACING OXYGEN IN AIR. LACK OF
SUFFICIENT OXYGEN CAN CAUSE SERIOUS INJURY/DEATH. EXPOS TO OXYGEN

DEFICIENT ATM (