

BOC GASES DIV OF BOC GROUP INC -- HELIUM COMPRESSED -- 6830-01-354-1164

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

Product ID:HELIUM COMPRESSED

MSDS Date:04/01/1995

FSC:6830

NIIN:01-354-1164

MSDS Number: CGMYW

=== Responsible Party ===

Company Name:BOC GASES DIV OF BOC GROUP INC

Address:575 MOUNTAIN AVENUE

City:MURRAY HILL

State:NJ

ZIP:07974

Country:US

Info Phone Num:905-273-7700

Emergency Phone Num:800-4

24-9300 CHEMTREC

CAGE:091K6

=== Contractor Identification ===

Company Name:BOC GASES OF AMERICA

Address:4323 BAINBRIDGE BLVD

Box:City:CHESAPEAKE

State:VA

ZIP:23324

Country:US

Phone:757-545-2486

CAGE:091K6

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

Ingred Name:HELIUM

CAS:7440-59-7

RTECS #:MH6520000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURE

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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:ACUTE: INHALATION MAY CAUSE ASPHYXIATION. MAY CAUSE DISPLACEMENT OF OXYGEN WHICH MAY CAUSE SUFFOCATION. NO ADVERSE HEALTH EFFECTS EXPECTED FROM CONTACT WITH GAS TO SKIN AND/OR EYES. CHRONIC: NONE SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenicity:HELIUM IS NOT LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN BY IARC, NTP NOR IS IT REGULATED AS SUCH BY OSHA.

Effects of Overexposure:INHALATION (ATMOSHERE OF LESS THAN 19.5% OXYGEN)-DIZZINESS, DROWSINESS, NAUSEA, VOMITING, EXCESS SALIVATION, DIMINISHED MENTAL ALERTNESS, LOSS OF CONSCIOUSNESS, POSSIBLE DEATH.

Medical Cond Aggravated by Exposure:NONE.

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===== First Aid Measures =====

First Aid:REMOVE VICTIM(S) TO FRESH AIR. ADMINISTER ARTIFICIAL RESPIRATION IF NOT BREATHING. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. OBTAIN IMMEDIATE MEDICAL ATTENTION.

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===== Fire Fighting Measures =====

Extinguishing Media:HELIUM IS NONFLAMMABLE AND DOES NOT SUPPORT COMBUSTION. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:HELIUM IS A SIMPLE ASPHYXIANT. IF POSSIBLE, MOVE CYLINDERS FROM FIRE AREA OR COOL WITH WATER. WEAR SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:UPON EXPOSURE TO FIRE OR FLAME, CYLINDER WILL VENT RAPIDLY AND/OR RUP TURE VIOLENTLY. PRESSURE CAN BUILD UP WHEN HEATED AND PRESSURE RELIEF DEVICES FAIL.

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===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. INCREASE VENTILATION TO RELASE AREA AND MONITOR OXYGEN LEVEL. USE APPROPRIATE PROTECTIVE EQUIPMENT (SCBA). IF LEAK IS FROM CONTAINER OR VALVE, CALL AIR PRODU CT'S EMERGENCY PHONE NUMBER.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage =====

Handling and Storage Precautions:CYLINDERS SHOULD BE STORED UPRIGHT IN A WELL-VENTILATED,SECURE AREA,OUT OF THE WEATHER.KEEP TEMPS BELOW 125F.STORE AWAY FROM EXITS &WELL-TRAVELED AREA

Other Precautions:SECURE CYLINDERS AT ALL TIMES WHILE NOT IN USE. USE A PRESSURE REDUCING REGULATOR OR SEPARATE CONTROL VALVE TO RELEASE FROM CYLINDER. USE A CHECK VALVE TO PREVENT REVERS FLOW INTO CYLINDER. DO NOT HEAT CYLINDER TO INCREASE DISCHARGE RATE.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134.

Ventilation:PROVIDE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:DLA-HMIS: WORK GLOVES.

Eye Protection:DLA-HMIS: SAFETY GLASSES.

Other Protective Equipment:SAFETY SHOES ARE RECOMMENDED WHEN HANDLING CYLINDERS.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER. DLA-HMIS: USE GOOD PERSONAL HYGIENE PRACTICES.

Supplemental Safety and Health

MSDS PRESENTED BY CAGE 091K6 FOR CONTRACT NUMBER SP0450-98-MAC55.

===== Physical/Chemical Properties =====

HCC:G3

Boiling Pt:B.P. Text:-452F,-269C

Melt/Freeze Pt:M.P/F.P Text:NONE

Vapor Density:0.0103

Spec Gravity:0.138

Evaporation Rate & Reference:NONE SPECIFIED BY MFR.

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS.

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES
NONE.

Stability Condition to Avoid:NONE.

Hazardous Decomposition Products:NONE.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Waste Disposal Methods:RETURN CONTAINER AND UNUSED PRODUCT TO SUPPLIER.
DO NOT

ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITIES. FOR
EMERGENCY DISPOSAL, SECURE CYLINDER AND SLOWLY DISCHARGE GAS TO THE
ATMOSPHERE IN A WELL-VENTILATED AREA OR OUTDOORS.

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