MG INDUSTRIES -- HELIUM GAS, COMPRESSED -- 6830-00-660-0026

------------------------------- Product Identification -------------------------------

Product ID: HELIUM GAS, COMPRESSED
MSDS Date: 10/09/1990
FSC: 6830
NIIN: 00-660-0026
MSDS Number: BJ5WP

--- Responsible Party ---
Company Name: MG INDUSTRIES
Address: 2460 BOULEVARD OF THE GENERALS
Box: 945
City: VALLEY FORGE
State: PA
ZIP: 19482
Country: US
Info Phone Num: 215-630-5422
Emergency Phone Num: 215-630-5422
CAGE: 08772

--- Contractor Identification ---
Company Name: MG INDUSTRIES
Address: 3 GREAT VALLEY PKY
Box: City: MALVERN
State: PA
ZIP: 19355-1424
Country: US
Phone: 610-695-7400 / 610-695-7449
CAGE: 08772

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

Ingredient Name: HELIUM
CAS: 7440-59-7
RTECS #: MH6520000
Fraction by Wt.: 100%

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

Reports of Carcinogenicity: NTP: NO  IARC: NO  OSHA: NO
Health Hazards Acute and Chronic: SKIN: FROSTBITE WITH REDNESS,
TINGLING, PAIN OR NUMBNESS. IN MORE SEVERE CASES, SKIN MAY BECOME
HARD & WHITE & DEVELOP BLISTERS. EYE: MAY CAUSE FROSTBITE WITH
REDNESS, PAIN, AND BLURRED VISION. INGESTION: IF LIQUID IS
SWALLOWED, FROSTBITE DAMAGE TO THE LIPS, MOUTH AND MUCOUS MEMBRANES
MAY OCCUR.

Effects of Overexposure: INHALE: DISTORTED SPEECH, INCREASED BODY HEAT
LOSS, GAS EMBOLI, UNCONSCIOUSNESS, RAPID RESPIRATION/PULSE, AIR
HUNGER, DIZZINESS, REDUCED AWARENESS, TIGHTNESS IN HEAD, TINGLING
SENSATIONS, INCOORDINATI ON, FAULTY JUDGEMENT, EMOTIONAL
INSTABILITY, RAPID FATIGUE, NAUSEA, VOMITING, COLLAPSE,
CONVULSIONS, DEEP COMA, DEATH.

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

First Aid: INHALE: REMOVE TO FRESH AIR. BREATHING STOPPED, GIVE CPR.
MAINTAIN AIRWAY/BLOOD PRESSURE. GIVE OXYGEN BY QUALIFIED PERSON IF
AVAIL. KEEP WARM/AT REST. FROSTBITE: WARM AFFECTED SKIN W/WARM
WATER AT 107 F. IF NOT AVAIL, WRAP W/BLANKETS. MOVE AFFECTED PART
WHILE BEING WARMED. EYE: WASH W/ LG AMTS WARM WATER-15-20 MIN. TREAT
SYMPTOMATICALLY & SUPPORTIVELY. GET NEEDED MEDICAL ATTN FOR EACH
CONDITION.

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

Extinguishing Media: DRY CHEMICAL OR CARBON DIOXIDE. FOR LARGER FIRES,
USE WATER SPRAY, FOG OR REGULAR FOAM.

Fire Fighting Procedures: MOVE CONTAINER FROM FIRE IF W/O RISK. APPLY WATER TO SIDES OF CONTAINERS EXPOSED TO FLAMES UNTIL AFTER FIRE IS OUT. STAY FROM ENDS OF TANKS. WITHDRAW.

Unusual Fire/Explosion Hazard: NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEAT OR FLAME. CYLINDER MAY EXPLODE IN HEAT OR FIRE.

Accidental Release Measures

Spill Release Procedures: STOP LEAK IF YOU CAN DO IT WITHOUT RISK. KEEP UNNECESSARY PEOPLE AWAY. ISOLATE HAZARD AREA AND DENY ENTRY. STAY UPWIND. KEEP OUT OF LOW AREAS.

Handling and Storage Precautions: OBSERVE ALL FEDERAL, STATE & LOCAL REGS WHEN STORING THIS SUBSTANCE. FOR ASSISTANCE, CONTACT DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

Other Precautions: DO NOT PERMIT PHYSICAL DAMAGE OR OVERHEATING OF CONTAINERS. CONTENTS ARE UNDER PRESSURE.; CONTAINERS MAY VIOLENTLY RUPTURE AND TRAVEL A CONSIDERABLE DISTANCE.

Exposure Controls/Personal Protection

Respiratory Protection: USE ANY SUPPLIED AIR RESPIRATOR OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE AND SELF-CONTAINED BREATHING APPARATUS.

Ventilation: PROVIDE GENERAL DILUTION VENTILATION.

Protective Gloves: FULL PROTECTIVE, COLD INSULATING GLOVES.

Eye Protection: SPLASH-PROOF SAFETY GOGGLES/FACESHIELD

Other Protective Equipment: APPROPRIATE PROTECTIVE CLOTHING/EQUIPMENT TO PREVENT SKIN FROM FREEZING. EYE WASH FOUNTAIN & QUICK DRENCH SHOWER.

Supplemental Safety and Health

IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANK DUE TO FIRE. SOME MATERIALS, IF SPILLED, MAY EVAPORATE LEAVING A FLAMMABLE RESIDUE. ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK, RAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE. COOL CONTAINERS W/FLOODING AMOUNT WATER.

Physical/Chemical Properties

HCC:G3

Boiling Pt: B.P. Text: -452F, -269C
Melt/Freeze Pt: M.P./F.P. Text: -458F, -272C
Decomp Temp: Decomp Text: 32.0F, 0.0C

Vapor Pres: 1719 MMHG

Vapor Density: 0.138

Spec Gravity: 0.1785 G/L @ 0C

Solubility in Water: 0.94% @ 0C

Appearance and Odor: ODORLESS, COLORLESS, TASTELESS, INERT GAS

Stability and Reactivity Data

Stability Indicator/Materials to Avoid: YES

Disposal Considerations

Waste Disposal Methods: OBSERVE ALL LOCAL, STATE & FEDERAL REGULATIONS WHEN DISPOSING OF THIS SUBSTANCE. FOR ASSISTANCE, CONTACT THE DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION AGENCY.

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