

MG INDUSTRIES -- HELIUM, REFRIGERATED LIQUID (CRYOGENIC LIQUID) -- 9135-00-142-9362

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

Product ID:HELIUM, REFRIGERATED LIQUID (CRYOGENIC LIQUID)

MSDS Date:06/25/1990

FSC:9135

NIIN:00-142-9362

MSDS Number: BQKHS

=== Responsible Party ===

Company Name:MG INDUSTRIES

Address:2460 BOULEVARD OF THE GENERALS

Box:945

City:VALLEY FORGE

State:PA

ZIP:19482

Country:US

Info Phon

e 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 =====

Ingred Name:HELIUM

CAS:7440-59-7

RTECS #:MH6520000

Fraction by Wt: 100.0%

ACGIH TLV:SIMPLE ASPHYXIAN

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

Routes o

f Entry: Inhalation:YES Skin:YES Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:INHALATION: DISTORTED SPEECH,  
INCREASED LOSS OF BODY HEAT. UNCONSCIOUSNESS MAY BE IMMEDIATE.  
SKIN: FROSTBITE, REDNESS, TINGLING & PAIN OR NUMBNESS. EYES:  
FROSTBITE W/REDNESS, PAIN, & BLURRED VISION. I NGESTION: FROSTBITE  
DAMAGE TO LIPS, MOUTH & MUCOUS MEMBRANES MAY OCCUR.  
Explanation of Carcinogenicity:NONE  
Effects of Overexposure:INHALATION: RAPI  
D PULSE, AIR HUNGER, DIZZINESS,  
REDUCED AWARENESS, RAPID FATIGUE, NAUSEA, VOMITING, COLLAPSE,  
CONVULSIONS, DEEP COMA & POSSIBLE DEATH.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED,  
GIVE ARTIFICIAL RESPIRATION. MAINTAIN AIRWAY & BLOOD PRESSURE &  
ADMINISTER OXYGEN IF AVAILABLE. SKIN: WASH AFFECTED SKIN IN WARM  
WATER AT A T EMPERATURE OF 107F. GENTLY WRAP AFFECTED PART IN  
BLANKET. I  
NGESTION: OBTAIN MEDICAL ATTENTION IN ALL CASES. PHYSICAN  
NOTE: NO SPECIFIC ANTIDOTE. TREAT SYMPTOMATICALLY & SUPPORTIVELY.

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

Extinguishing Media:USING AGENT SUITABLE FOR TYPE OF SURROUNDING FIRE.  
Fire Fighting Procedures:MOVE CONTAINER FROM FIRE AREA IF POSSIBLE.  
STAY AWAY FROM STORAGE TANK ENDS. COOL FIRE-EXPOSED CONTAINERS  
W/WATER FROM SIDE UNTIL WELL AFTER FIRE IS OUT.  
Unusual Fire/Explosion Hazard:CONTENTS ARE  
UNDER PRESSURE; CONTAINERS  
MAY RUPTURE VIOLENTLY & TRAVEL A CONSIDERABLE DISTANCE. WATER  
CONTACT W/LIQUEFIED GASES MAY CAUSE VIOLENT EXPLOSIONS.

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

Spill Release Procedures:DON'T TOUCH SPILLED MATERIAL. STOP LEAK IF YOU  
CAN DO SO W/OUT RISK. KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD  
AREA & DENY ENTRY. VENTILATE CLOSED SPACES BEFORE ENTERING.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN ACCORDANCE W/29 CFR 1910.101.

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

Respiratory Protection:ANY SUPPLIED-AIR RESPIRATOR OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. SELF-CONTAINED BREATHING APPARATUS W/FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE .

Ventilation:PROVIDE GENERAL DILUTION

Protective Gloves:WEAR FULL PROTECTIVE, COLD INSULATING

Eye Protection:SPLASH-PROOF  
, SAFETY GOGGLES

Other Protective Equipment:EYE WASH FOUNTAIN & QUICK DRENCH SHOWER

Work Hygienic Practices:REMOVE & WASH CONTAMINATED CLOTHES BEFORE REUSE. WASH HANDS THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

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

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

Melt/Freeze Pt:M.P/F.P Text:-458F/-272C

Vapor Pres:1719

Vapor Density:0.138

Spec Gravity:0.147

Solubility in Water:0.94%

Appearance and Odor:COLORLESS LIQUID, TASTELESS, ODORLESS

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

Stability Indicator/Materials to Avoid:YES

WATER (MAY CAUSE VIOLENT EXPLOSIONS DUE TO RAPID TEMPERATURE FLUCTUATIONS WHEN IN CONTACT W/LIQUEFIED GASES)

Stability Condition to Avoid:HEAT, OPEN FLAME, PHYSICAL DAMAGE & OVERHEATING

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

Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE & LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBST

ANCE. FOR ASSISTANCE,  
CONTACT THE DISTRICT DIRECTOR OF THE ENVIRONMENTAL PROTECTION  
AGENCY. UN 1963.

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