

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.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional ad
vice to verify and
assume responsibility for the suitability of this information to their
particular situation.