

MG INDUSTRIES -- NITROGEN, CRYOGENIC LIQUID -- 6830-00-285-4769
===== Product Identification =====

Product ID:NITROGEN, CRYOGENIC LIQUID
MSDS Date:10/09/1990
FSC:6830
NIIN:00-285-4769
MSDS Number: BNRNY
=== 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:800-424-9300 CHEMTREC
Emergency Ph
one Num:800-424-9300 CHEMTREC
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:NITROGEN, CRYOGENIC LIQUID
CAS:7727-37-9
RTECS #:QW9700000
Fraction by Wt: 100%
Other REC Limits:NONE SPECIFIED

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

Reports

of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALE: ASPHYXIA/RAPID

RSPRTN/PULSE/ AIR HUNGER/DIZZY/REDUCED AWARE/TIGHTNESS IN

HEAD/TINGLE/INCOORDINATE/

NAUSEA/VOMIT/COLLAPSE/UNCONSCIOUS/CONVULSIONS/COMA/DEATH. EYE:

IRRITATE/ FROSTBITE/RED /PAIN/BLURRED VISION. INGEST:

FROSTBITE-LIPS/MOUTH/MUCOUS MEMBRANES. SKIN:

FROSTBITE/RED/TINGLE/PAIN/NUMBNESS.

Effects of Overexposure:SEE INFO-SIMPLE ASPHYXIANTS. NITROGEN INHALED
UNDER INCREA

SED ATMOSPHERIC PRESSURE, (>1.5 ATMOSPHERES), DISSOLVE

IN FAT-CONTAINING BRAIN CELLS/ACT AS AN ANESTHETIC, CAUSING

NARCOSIS. PERSONS EXPOSED T O INCREASED PRESSURE FOR A TIME/WHO

ARESUDDENLY RELEASED FROM PRESSURE-DEVELOP DECOMPRESSION SICKNESS.

Medical Cond Aggravated by Exposure:REPEATED EXPOSURE, WITHOUT COMPLETE
DECOMPRESSION, MAY RESULT IN DECOMPRESSION SICKNESS.

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

First Aid:INHAL: IMMED FRESH AIR. ARTIF RE

SP IF NO BREATH. GIVE OXYGEN.

MAINTAIN AIRWAY/BLOOD PRESSURE. WARM/AT REST. TREAT

SYMPTOMATICALLY/SUPPORTIVELY. IMMED MED AID. SKIN: FROSTBITE: WARM
SKIN W/ WARM WTR (107F)/WRAP BLANKETS. EXERCISE AREA WHILEWARMING.

IMMED MED ATTN. EYE: WASH IMMED W/LOTS WTR LIFTING LIDS 15 MINS.

IRRIGATE W/NORMAL SALINE TIL PH NORMAL. IMMED MED ATTN. INGEST:

IMMED MED ATTN IF##

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

Extinguishing Media:EXTINGUISHER FOR TY

PE OF SURROUND FIRE. COOL

CONTAINERS W/FLOOD OF WATER FROM DISTANCE. NO WATER ON MATERIAL.

Fire Fighting Procedures:MOVE CONTAINER TO RISK-FREE AREA. STAY AWAY
FROM ENDS OF TANKS. ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK,
RAIL CAR, TANK TRUCK IS INVOLVED IN FIRE. (1990

Unusual Fire/Explosion Hazard:NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO
HEAT OR FLAME. CYLINDER MAY EXPLODE IN HEAT OF FIRE. EMERGENCY
RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE PAGE 21).

===== A

ccidental Release Measures =====

Spill Release Procedures:DO NOT TOUCH SPILLED MATERIAL. STOP LEAK IF POSSIBLE WITHOUT RISK. KEEP UNNECESSARY PEOPLE AWAY; ISOLATE HAZARD AREA AND DENY ENTRY. VENT CLOSED SPACES BEFORE ENTERING. ##VOMIT OCCURS, KEEP HEAD BELOW HIPS-PREVENT ASPIRATION.

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

Handling and Storage Precautions:STORE IN ACCORDANCE WITH 29 CFR 1910.101. NO PHYSICAL DAMAGE. INSIDE STORAGE; WELL VENTED AREA

(NFPA 49, HAZARDOUS CHEMICAL DATA, 1975)> STORE AWAY FROM INCOMPATIBLE SUBSTANCES. NO OVERHEAT CONTAINERS. CONTENTS PRESSURIZED; CONTAINERS MAY RUPTURE VIOLENTLY/TRAVEL DISTANCE. CONTACT OF LIQUIFIED GAS WITH WATER--VIOLENT EXPLOSIONS.

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

Respiratory Protection:SUPPLIED-AIR RESPIRATOR OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. ANY 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:NO CONTACT LENSES. EYE WASH FOUNTAIN/QUICK DRENCH SHOWER.
Supplemental Safety and Health

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

HCC:G3
Boiling Pt:B.P. Text:-321F,-196C
Melt/Freeze Pt:M.P/F.P Text:-346F,-210C
Decomp Temp:Decomp Text:N/K #-196C
Vapor Pres:760 MM @#
Vapor Density:.967
Spec Gravity:.8081 @ -196 C
Viscosity:.292CPS@-209C
Solubility in Water:1.6% @ 20C
Appearance and Odor:ODORLESS, TASTELESS, COLORLESS LIQUIFIED GAS.
Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES
LITHIUM, MAGNESIUM, NEODYMIUM, OZONE, TITANIUM.
Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE TOXIC OXIDES OF NITROGEN.

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

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

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