

LIQUID CARBONIC CORP -- LIQUID NITROGEN -- 9135-00-985-7080

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

Product ID:LIQUID NITROGEN

MSDS Date:07/01/1990

FSC:9135

NIIN:00-985-7080

MSDS Number: BTKSP

=== Responsible Party ===

Company Name:LIQUID CARBONIC CORP

Address:135 S LA SALLE STREET

City:CHICAGO

State:IL

ZIP:60603-4101

Country:US

Info Phone Num:312-855-2500

Emergency Phone Num:312-855-2500

CAGE:36517

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= Contractor Identification ===

Company Name:LIQUID CARBONIC CORP

Address:135 S LA SALLE STREET

Box:City:CHICAGO

State:IL

ZIP:60603-4101

Country:US

Phone:312-855-2500

CAGE:36517

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 99.9%

ACGIH TLV:ASPHYXIAN; 9192

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogeni

city:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:NITROGEN IS NON-TOXIC & IS CLASSED AS A SIMPLE ASPHYXIA NT - IT DISPLACES OXYGEN IN THE AIR. CONTACT WITH LIQUID WILL CAUSE FROSTBITE.

Explanation of Carcinogenicity:THIS PRODUCT IS NOT LISTED BY NTP, IARC, OR OSHA

Effects of Overexposure:INHALED:DIZZINESS, DROWSINESS, EVENTUAL UNCONSCIOUSNESS

Medical Cond Aggravated by Exposure:NO INFORMATION GIVEN ON MSDS BY MFR.

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

First Aid:INHALE:REMOVE TO FRESH AIR. RESTORE OR SUPPORT BREATHING IF NECESSARY. KEEP WARM & AT REST. USE CAUTION WHEN ENTERING CONTAMINATED AREAS TO VENTILATE TO ACCEPTABLE OXYGEN LEVELS. FROST BITE:FLUSH AFFECTED AREAS W/LUKE WARM WATER. **DO NOT USE HOT WATER** FOR SERIOUS CRYOGENIC FREEZING BURN,SEE PHYSICIAN IMMEDIATELY.

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

Extinguishing Media:NON-FLAMMABLE INERT GAS AND LIQUID

Unusual Fire/Explosion Hazard:IF CONTAINERS ARE INVOLVED IN A FIRE, SAFELY RELOCATE OR COOL WITH WATER SPRAY.

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

Spill Release Procedures:FOLLOW SUPPLIER'S INSTRUCTIONS. LIQUID NITROGEN IS HANDLED IN VACUUM JACKETED VESSELS. IF THERE IS A MAL-FUNCTION, CONTACT THE CLOSEST SUPPLIER LOCATION IMMEDIATELY. USE IN A WELL VENTILATED AREA AND USE A "FIRST IN/FIRST OUT" INVENTORY SYSTEM.

Neutralizing Agent:NO INFORMATION GIVEN ON MSDS BY MFR.

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

Handling and Storage Precautions:PROTECT CONTAINERS FROM PHYSICAL DAMAGE. STORE IN COOL, DRY WELL VENTILATED AREA AWAY FROM HEAT(ABOVE 130F) & DIRECT SUNLIGHT.

Other Precautions:REFER TO CGA SAFETY BULLETIN SB-2 & PHAMPHLETS P-1,P-9,P-12 & P-14. STORE CYLINDERS UPRIGHT AND FIRMLY SECURED. USE CHECKVALVE IN LINE TO PREVENT BACK FLOW. USE ONLY DOT OR ASME CODED CYLINDERS. DO NOT REFI

LL CYLINDERS, RETURN TO SUPPLIER.

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

Respiratory Protection:IN IVENT OF A MAJOR LEAK, A SELF CONTAINED BREATHING APPARATUS MAY BE REQUIRED.

Ventilation:LOCAL EXHAUST OR MECHANICAL GENERAL VENTILATION TO PREVENT ACCUMULATION SO AS TO EXCLUDE AND ADEQUATE OXYGEN SUPPLY.

Protective Gloves:LOOSE FITTING,INSULATED

Eye Protection:SAFETY GOGGLES/GLASSES PLUS FACE SHIELD

Other Protective Equipment:SAFETY SHOES

Work Hygienic Pract

ices:MFR: ? HMIS:USE GOOD INDUSTRIAL HYGIENE

PRACTICE. AVOID UNNECESSARY CONTACT. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

NONE

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

HCC:G3

NRC/State Lic Num:NONE

Boiling Pt:B.P. Text:-320F,-196C

Vapor Pres:760 @BP

Vapor Density:0.97

Spec Gravity:0.81 @BP

Solubility in Water:VAPOR - VERY SLIGHT

Appearance and Odor:COLORLESS,ODORLESS GAS - LIQUID IS WATER WHITE

Percent Volatiles by Volume:10

0

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:MFR GAVE NO DISPOSAL INFORMATION. HMIS:NO DISPOSAL PROBLEM. GAS WILL DIFFUSE INTO ATMOSPHERE.

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