

UNION CARBIDE CORP., LINDE DIV. -- NITROGEN -- 4210-01-250-6424

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

Product ID:NITROGEN

MSDS Date:08/01/1985

FSC:4210

NIIN:01-250-6424

MSDS Number: BXYX

=== Responsible Party ===

Company Name:UNION CARBIDE CORP., LINDE DIV.

Address:39 OLD RIDGEBURY RD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:203-794-2000

Emergency Phone Num:800-822-4357

CAGE:3

6346

=== Contractor Identification ===

Company Name:KEYSTONE FIRE PROTECTION CO.

Address:108 PARK DRIVE, SUITE 3

Box:City:MONTGOMERYVILLE

State:PA

ZIP:18936

Country:US

Phone:215-641-0100/ FAX 215-641-9638

CAGE:1U693

Company Name:UNION CARBIDE CORP LINDE DIV

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357; 304-744-3487

CAGE:36346

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW

9700000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIFIED

ACGIH TLV:ASPHYXIAN; 9192

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT APPLICABLE.

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

Health Hazards Acute and Chronic:ACUTE: EVAPORATION OF THE LIQUID FROM THE SKIN CAN PRODUCE FROSTBITE-AVOID N2 LIQUID. IN HIGH CONCENTRATIONS THIS IS A SIMPLE ASPHYXIAN - DIZZINESS,SHORTNESS OF BREATH,UNCONSCIOUSNESS, OR S

UFFOCATION CAN OCCUR.ANY COMPRESSED

GAS CAN BE ATMECHANICAL HAZARDS. CAN CAUSE COMPRESSED AIR ILLNESS WITH CHRONIC OVEREXPOSURE

Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.

Effects of Overexposure:FROSTBITE OR CHILLING OF SKIN FROM CRYOGENIC LIQUID. GAS CANDISPLACE OXYGEN FOR BREATHING AND RESULT IN DIZZINESS, SHORTNESS OF BREATH.

Medical Cond Aggravated by Exposure:NONE KNOWN

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

First Aid:TREAT FOR FROSTBITE IF NEEDED. IF BURNING OR ITCHING SENSATION OF EYES/SKIN OCCUR, FLUSH WITH WATER FOR 15 MINUTES AND SEEK MEDICAL ATTENTION. REMOVE VICTIM TO FRESH AIR IN CASE OF OVERDOSE. GIVE MOUT H-TO-MOUTH ARTIFICAL RESPIRATION IF NEEDED. GIVE OXYGEN IF BREATHING IS DIFFICULT.

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

Fire Fighting Procedures:GAS CYLINDRES ARE EQUIPPED WITH PRESSUR AND TEMPERATURE RELIEF DEVICES - REMOVE CYLINDERS FROM FIRE OR HIGH TEMPERATURE TO AVOID DANGER OF RUPTURE.

Unusual Fire/Explosion Hazard:NONE REPORTED BY MANUFACTURER.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM RELEASE AREA. VENTILATE TO OUTSIDE.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSIC

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DAMAGE. STORE AWAY FROM EXTREME HEAT. KEEP CYLINDER VALVES CLOSED WHEN NOT IN USE AND WHEN EMPTY.

Other Precautions:DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS WITH PROPER CAUTION. STORE CYLINDERS IN A CLEAN, DRY, WELL VENTILLATED AREA AWAY FROM HEAT ABOVE 125F. KEEP CYLINDER CAPPED AND SECURED AGAINST MOVE MENT WHEN NOT IN USE.

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

Respiratory Protection:SCBA MAY BE NEEDED FOR PROLONGED EXPOSURE.

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ntilation:LOCAL EXHAUST MAY BE NEEDED FOR CONFINED SPACE USE. GENERAL MECHANICAL VENTILATION IS ALWAYS RECOMMENDED.

Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.

Eye Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.

Other Protective Equipment:SAFETY SHOES,HEARING PROTECTION.IF HANDLING LIQUIDS, SPECIAL GLOVES,FACE SHIELD,OTHER PROTECTIVE CLOTHING MAY BE NEEDED.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. USE PROPER CARE WHE  
N HANDLING AND STORING  
CYLINDERS.

Supplemental Safety and Health

THIS ENTRY, P/N IND B, WAS ADDED SINCE THE VENDOR/DISTRIBUTOR FIELD FOR P/N IND A WAS FULL, CONTAINING FOUR ENTRIES.

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

HCC:G3

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

Melt/Freeze Pt:M.P/F.P Text:-346F,-210C

Vapor Density:0.97 AIR=1

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS,ODORLESS GAS

Percent Volatiles by Volume:100

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===== Stability an  
d Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

CAN REACT VIOLENTLY WITH OZONE, LITHIUM (LI), NEODYMIUM (ND) AND TITANIUM (TI) UNDER CERTAIN CONDITIONS.

Stability Condition to Avoid:NONE REPORTED BY MANUFACTURER

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. DISPOSAL SHOULD BE

MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.

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