

UNION CARBIDE CORP LINDE DIV -- NITROGEN -- 6685-00-292-3688

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

Product ID:NITROGEN

MSDS Date:08/01/1985

FSC:6685

NIIN:00-292-3688

MSDS Number: BQNDN

=== 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:203-744-3487

Emergency Phone Num:800-822-4357

CAGE:36346

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= Contractor Identification ===

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

Company Name:WEKSLERIGLASS THERMOMETER CORP

Address:80 MILL ROAD

Box:City:FREEPORT

State:NY

ZIP:11520

Country:US

Phone:516-623-0100

CAGE:64467

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 100%

ACGIH TLV:AS

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:INGESTION: PRODUCT IS A GAS AT NORMAL
TEMPERATURE AND PRESSURE. SKIN: NO HARMFUL EFFECT EXPECTED FROM
VAPOR. INHALATION: ASPHYXIANT. EYE: NO HARMFUL EFFECTS EXPECTED
FROM VAPOR.

Explanation of Carcinogenicity:NOT A CARCINOGEN.

Effects of Overexposure:INHALATI

ON: MODERATE CONCENTRATIONS MAY CAUSE
HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION,
VOMITING, AND UNCONSCIOUSNESS. LACK OF OXYGEN CAN CAUSE DEATH.
CONTACT WITH LIQUID MAY CAUSE FROSTBITE.

Medical Cond Aggravated by Exposure:DOES NOT SUGGEST THAT OVEREXPOSURE
IS LIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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

First Aid:SWALLOWING-THIS PRODUCT IS A GAS AT NORMAL TEMPERATURE &
PRESSURE. SK
IN-IMMEDIATELY WARM FROSTBITE AREA WITH AWARM WATER. IF
MASS EXPOSURE, REMOVE CLOTHING WHILE SHOWERING W/WARM WATER. CALL A
PHYSICI AN. INHALATION-REMOVE TO FRESH AIR. GIVE CPR IF NOT
BREATHING. GIVE OXYGEN IF HARD TO BREATH. CALL A PHYSICIAN.
EYE-IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MIN. SEE A
PHYSICIAN IMMEDIATELY.

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

Flash Point:NA

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:NITROGEN CANNOT
CATCH FIRE. USE MEDIA APPROPRIATE
FOR SURROUNDING FIRE.

Fire Fighting Procedures:EVACUATE ALL PERSONNEL FORM DANGER AREA.
IMMEDIATELY DELUGE CONTAINERS W/WATER SPRAY FROM MAX DISTANCE UNTIL
COOL, THEN MOVE CONTNR AWAY FROM FIRE AREA W/O RISK

Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF
FIRE. NO PART OF CONTAINER SHOULD BE SUBJECTTO TEMPERATURE HIGHER
THAN 52C (APPRX. 125F). GAS CANNOT CATCH FIRE.

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

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Spill Release Procedures:USE SCBA WHERE NEEDED. SHUTOFF LEAK IF W/O RISK. VENTL AREA OF LEAK OR MOVE CONTAINER TO WELL VENTLAREA. EVACUATE ALL PERSONNEL FROM DANGER AREA. TEST AREA FOR SUFFICIENT OXYGEN CONTENT PRIOR TO PERMI TTING RE-ENTRY OF PERSONNEL.

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

Handling and Storage Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN SYSTEM BY VENTING TO SAFE PLACE, THEN REPAIR THE LEAK.

Other Precautions:HIGH PRESSURE GAS. CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. STORE AND USE WITH ADEQUATE VENTILATION. CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY.

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

Respiratory Protection:SELECT ACCORDANCE WITH OSHA 29 CFR 1910.134. RESPIRATORS SHALL BE ACCEPTABLE TO MSHA AND NIOSH.

Ventilation:LOCAL EXHAUST: PREFERRED. MECHANICAL (GENERAL): ACCEPTABLE Protective Glo

ves:PREFERRED FOR CYLINDER HANDLING

Eye Protection:ACCORDANCE WITH OSHA 29 CFR 1910.133

Other Protective Equipment:METATARSAL SHOES FOR CYLINDER HANDLING.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE

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

HCC:G3

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

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

Vapor Pres:GAS

Vapor Density:0.967

Spec Gravity:GAS

Evaporation Rate & Reference:NA

Solubility in

Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

UNDER CERTAIN CONDITIONS, NITROGEN CAN REACT VIOLENTLY WITH LITHIUM, NEODYMIUM, TITANIUM, OZONE.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE

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

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Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE. DISCARD ANY PRODUCT RESIDUE, DISPOSABLE CONTAINER/LINER IN COMPLIANCE WITH FEDERAL, LOCAL, AND STATE REGULATIONS.

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