

UNION CARBIDE CORP., LINDE DIV. -- NITROGEN -- 6685-00-491-8220

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

Product ID:NITROGEN

MSDS Date:08/01/1985

FSC:6685

NIIN:00-491-8220

MSDS Number: BWZLQ

=== 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: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%

Other

REC Limits:NONE SPECIFIED  
ACGIH TLV:ASPHYXIAN; 9192

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SWALLOWING-PRODUCT IS A GAS AT NORMAL  
TEMPERATURE/PRESSURE. . INHALATION-ASPHYXIAN. SKIN-NO HARMFUL  
EFFECTS EXPECTED FROM VAPOR. EYE-NO HARMFUL EFFECTS EXPECTED FROM  
VAPOR. CHRONIC: NO EVIDENCE OF AD VERSE EFFECTS FROM AV  
AILABLE  
INFORMATION.

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

Effects of Overexposure:INHALATION: HEADACHE, DROWSINESS, DIZZINESS,  
EXCITATION, EXCESS SALIVATION, NAUSEA, VOMITING, AND LOSS OF  
CONSCIOUSNESS. LACK OF OXYGEN CAN CAUSE DEATH. SKIN: LIQUID MAY  
CAUSE FROSTBITE.

Medical Cond Aggravated by Exposure:THE TOXICOLOGICAL/PHYSICAL  
PROPERTIES OF THIS MATERIAL DO NOT SUGGEST THAT OVEREXPOSURE IS  
LIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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

First Aid:SKIN: FOR EXPOSURE TO LIQUID, IMMEDIATELY WARM FROSTBITE AREA  
WITH WARM WATER (NOT EXCEED 105F). CALL A PHYSICIAN. INHALATION:  
REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING.  
GIVE O XYGEN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN. EYE:  
IMMEDIATELY FLUSH EYES THOROUGHLY WITH WATER FOR AT LEAST 15 MIN.  
SEE A PHYSICIAN.

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

Flash Point:NONE  
Extinguishing Media:NITROGEN CANNOT CATCH FIRE. USE MEDIA APPROPRIATE  
FOR SURROUNDING FIRE.  
Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA.  
IMMEDIATELY DELUGE CONTAINERS WITH WATER SPRAY FROM MAXIMUM  
DISTANCE UNTIL COOL, THEN MOVE CONTAINERS AWAY FROM FIRE.  
Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE EXPLOSIVELY WITH  
HEAT OF FIRE. MOST CONTAINERS ARE DESIGNED TO VENT CONTENT

S WHEN

THEY ARE EXPOSED TO ELEVATED TEMPERATURES.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA. USE SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAK IF WITHOUT RISK. VENTILATE AREA OF LEAK OR MOVE CONTAINER TO WELL VENTILATED AREA. TEST AREA FOR SUFFICIENT OXYGEN BEFORE ENTERING.

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

Handling and Storage Precauti

ons:NEVER WORK ON A PRESSURIZED SYSTEM. IF

THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR LEAK.

Other Precautions:CAUTION: HIGH PRESSURE GAS. USE PIPING AND EQUIPMENT ADEQUATELY DESIGNED TO WITHSTAND PRESSURES TO BE ENCOUNTERED. CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY. STORE AND USE WITH ADEQUATE VEN TILATION. CLOSE VALVE WHEN NOT IN USE.

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

Respiratory Protection:SELECT IN ACCORDANCE WITH OSHA 29 CFR 1910.134.

RESPIRATORS SHALL BE ACCEPTABLE TO MSHA AND NIOSH.

Ventilation:LOCAL EXHAUST-PREFERRED. MECHANICAL-ACCEPTABLE.

Protective Gloves:PREFERRED FOR CYLINDER HANDLING.

Eye Protection:SELECT IN ACCORDANCE WITH 29CFR 1910.133

Other Protective Equipment:METATARSAL SHOES FOR CYLINDER HANDLING.

SELECT IN ACCORDANCE WITH OSHA 29 CFR 1910.132 AND 1910.133.

Work Hygienic Practices:STANDARD HYGIENIC PRACTICES.

Supplemental Safety a

nd Health

NONE

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

HCC:N1

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

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 CONDITIO

NS, NITROGEN CAN REACT VIOLENTLY WITH LITHIUM,  
NEODYMIUM, TITANIUM OZONE.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE. DISCARD ANY  
PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN  
ENVIRONMENTALLY ACCEPTABLE MANNER, IN FULL COMPLIANCE EITH LOCAL,  
STATE AND FEDERAL REGULATIONS.

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