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:36
346
=== 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:ASPHYXIANT; 9192

========== 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-ASPHYXIANT. SKIN-NO HARMFUL EFFECTS EXPECTED FROM VAPOR. EYE-NO HARMFUL EFFECTS EXPECTED FROM VAPOR. CHRONIC: NO EVIDENCE OF AD VERSE EFFECTS FROM AVA
ILABLE
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.

========== 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 APHYSICIAN. 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 CONTENTS

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 Precautio
ns: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 an
d 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 CONDITION

S, 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.