UNION CARBIDE INDUSTRIAL GASES, INC, LINDE DIV. -- NITROGEN -- 6685-01-187-7215

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

Product ID:NITROGEN
MSDS Date:08/01/1985
FSC:6685
NIIN:01-187-7215
MSDS Number: BXTJM
=== Responsible Party ===
Company Name:UNION CARBIDE INDUSTRIAL GASES, INC, LINDE DIV.
Address:FOOT OF GREAT LAKES AVE
City:ECORSE
State:MI
ZIP:48229
Country:US
Info Phone Num:313-842-4500
Emergency
Phone Num:313-842-4500
CAGE:0G1N8
=== Contractor Identification ===
Company Name:UNION CARBIDE INDUSTRIAL GASES, INC, LINDE DIV.
Address:FOOT OF GREAT LAKES AVE
Box:City:ECORSE
State:MI
ZIP:48229
Country:US
Phone:313-842-4500
CAGE:0G1N8
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 #:QW9700

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Fraction by Wt: 100%
ACGIH TLV:ASPHYXIANT; 9192

========== 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 CARCINO
GEN.
Effects of Overexposure:INHALATION: MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING, AND UNCONSCIOUSNESS. LACK OF OXYGEN CAN CAUSE DEATH. CONTACT WITH LIQUID MAY CAU SE FROSTBITE.
Medical Cond Aggravated by Exposure:DOES NOT SUGGEST THAT OVEREXPOSURE IS LIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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

First Aid:SWALLOWING-THIS PRODUCT IS A GAS AT
NORMAL TEMPERATURE &
PRESSURE. SKIN-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.

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

Flash Point:NA
Lower Limits:NA
Upper Limits:N
A
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 ==========

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

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

Handling and Storage Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLIND
ER 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 OHSA 29 CFR 1910.134. RESPIRATORS SHALL BE ACCEPTABLE TO MSHA AND NIOSH.
Ventilation:LOCAL EXHAUST: PREFERRED. MECHAN
ICAL (GENERAL): ACCEPTABLE
Protective Gloves: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
Evaporati
on 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

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

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