

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

000

Fraction by Wt: 100%

ACGIH TLV:ASPHYXIAN; 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: ASPHYXIAN. 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 CAUSE 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 A WARM WATER. IF MASS EXPOSURE, REMOVE CLOTHING WHILE SHOWERING W/WARM WATER. CALL A PHYSICIAN. INHALATION-REMOVE TO FRESH AIR. GIVE CPR IF NOT BREATHING. GIVE OXYGEN IF HARD TO BREATHE. 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:NA

A

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

Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM 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 SUBJECT TO TEMPERATURE HIGHER THAN 52C (APPRX. 125F). GAS CANNOT CATCH FIRE.

=====

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 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 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

=====

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

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

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.