

UNION CARBIDE INDUSTRIAL GASES, INC, LINDE DIV. -- NITROGEN -- 6685-01-265-5087

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

Product ID:NITROGEN

MSDS Date:08/01/1985

FSC:6685

NIIN:01-265-5087

MSDS Number: BWZNF

=== 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:800-822-4357

CAGE:0G1N8

=== Contractor Identification ===

Company Name:UNION CARBIDE INDUSTRIAL GASES, INC, LINDE DIV.

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Box:City:ECORSE

State:MI

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

ACGIH TLV:ASPHYXIAN; 9495

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

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Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:ACUTE: INHLALATION OF MODERATE  
CONCENTRATIONS, DUE TO DISPLACEMENT OF OXYGEN, MAY CAUSE  
ASPHYXIATION. CONTACT WITH LIQUID MAY CAUSE FROSTBITE. CHRONIC: NO  
EVIDENCE OF ADVERSE EFFECTS FROM AVAILABLE IN FORMATION.  
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUEPE  
CTED CARCINOGEN.  
Effects of Overexposure:INHALATION: HEADACHE, DROWSINESS, DIZZINESS,  
EXCITATION, EXCESS SALAVATION, VOMITING, UNCONSCIOUSNESS.  
Medical Cond Aggravated by Exposure:THE TOXICOLOGICAL AND THE PHYSICAL  
AND CHEMICAL PROPERTIES OF THIS MATERIAL DO NOT SUGGEST THAT  
OVEREXPOSURE IS LIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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

First Aid:INHALATION-REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION  
IF  
BREATHING STOPPED; OXYGEN IF BREATHING DIFFICULT.  
SKIN-IMMEDIATELY WARM FROSTBITE AREA WITH WARM WATER. CALL A  
PHYSICIAN. EYES-FLUSH WITH WATER FOR 15 MINUTES. SEE A PHYSICIAN  
IMMEDIATELY. INGESTED-NOT ALIKELY ROUTE OF EXPOSURE.

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

Flash Point:NONE  
Extinguishing Media:NITROGEN CANNOT CATCH FIRE. USE MEDIA APPROPRIATE  
FOR SURROUNDING FIRE.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND  
F  
ULL PROTECTIVE GEAR. COOL CONTAINERS WITH FLOODING AMOUNTS OF  
WATER UNTIL WELL AFTER FIRE IS OUT.  
Unusual Fire/Explosion Hazard:GAS UNDER PRESSURE. CONTAINER MAY RUPTURE  
EXPLOSIVELY IF EXPOSED TO FIRE OR HIGH TEMPERATURES.

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

Spill Release Procedures:EVACUATE PERSONNEL FROM DANGER AREA. USE  
SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAK IF  
NO RISK. VENTILATE AREA OR MOVE CONTAINER TO WELL-VENTILATE

D AREA.

TEST AREA, ESPECIALLY CONFINED SPACES, BEFORE RE-ENTRY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE AND USE WITH ADEQUATE

VENTILATION. CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF NON-ROUTINE USE OR AN

EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION.

Protective Gloves:LEATHER

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:NONE

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING.

Supplemental Safety and Health

===== 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:0.97

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 CONDITIONS, NITROGEN MAY REACT WITH LITHIUM, NEO

DYMIUM,  
TITANIUM, OZONE.

Stability Condition to Avoid:HIGH TEMPERATURES, OPEN FLAME MAY CAUSE  
OVERPRESSURIZATION OF CONTAINER.

Hazardous Decomposition Products:NONE.

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

Waste Disposal Methods:SLOWLY RELEASE TO ATMOSPHERE. DISCARD ANY  
PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN  
ENVIRONMENTALLY SOUND MANNER, IN FLL COMPLIANCE WITH LOCAL, STATE  
AND FEDERAL REGULATIONS.

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