UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION -- NITROGEN -- 6830-00-656-1596

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

Product ID:NITROGEN
MSDS Date:08/01/1985
FSC:6830
NIIN:00-656-1596
MSDS Number: BFKCN
=== Responsible Party ===
Company Name:UNION CARBIDE CORP., INDUSTRIAL CHEMICALS DIVISION
Address:39 OLD RIDGEBURY ROAD
City:DANBURY
State:CT
ZIP:06817-0001
Country:US
Info Phone Num:800-822-4357

Emergency Phone Num:800-822-4357
CAGE:61637
=== Contractor Identification ===
Company Name:UNION CARBIDE CORP
Address:39 OLD RIDGEBURY ROAD
Box:City:DANBURY
State:CT
ZIP:06817-0001
Country:US
Phone:800-822-4357/732-563-5522 (MSDS)
CAGE:61637

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

Ingred Name:NITROGEN
CAS:7727-37-9
RTECS #:QW9700000
Fraction by Wt: 99.9%
ACGIH TLV:ASPHYXIANT; 9192

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

LD50 LC50 Mix

ture:LD50 (ORAL RAT) IS NOT APPLICABLE.
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE-EYES:NO HARMFUL EFFECT EXPECTED FROM VAPOR. SKIN:NO HARMFUL EFFECT EXPECTED FROM VAPOR. INHALATION:ASPHYXIANT. INGESTION:THIS PRODUCT IS A GAS AT NORMAL TEMPERATURE AND PRESSURE. CHRONIC-NO EVID ENCE OF ADVERSE EFFECTS FROM AVAILABLE INFORMATION.
Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS LISTED BY IARC, NTP, OR OSHA
AS A CARCINOGEN.
Effects of Overexposure:INHALATION:MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, EXCITATION, EXCESS SALIVATION, VOMITING, AND UNCONSCIOUSNESS. LACK OF OXYGEN MAY CAUSE DEATH.
Medical Cond Aggravated by Exposure:THE TOXICOLOGY AND THE PHYSICAL AND CHEMICAL PROPERTIES OF THE MATERIAL DO NOT SUGGEST THAT OVEREXPOSURE IS LIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

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

First Aid:INHALATI
ON:REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NECESSARY. GIVE OXYGEN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN.

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

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 Fi
re/Explosion Hazard:GAS CANNOT CATCH FIRE. CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. KEEP TEMPERATURE BELOW 125F. MOST CONTAINERS ARE DESIGNED TO VENT AT HIGH TEMPERATURES.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM RELEASE AREA. USE SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAK IF WITHOUT RISK. VENTILATE AREA OF LEAK OR MOVE LEAKING CONTAINER TO WELL-VENTILATED AREA.
Neutralizin

g Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM PHYSICAL DAMAGE. STORE AWAY FROM EXTREME HEAT. KEEP CYLINDER VALVES CLOSED WHEN NOT IN USE AND WHEN EMPTY.
Other Precautions:DO NOT DEFACE CYLINDERS OR LABELS. HANDLE CYLINDERS WITH PROPER CAUTION.

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

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

RESPIRATORS SHALL BE ACCEPTABLE TO OSHA AND NIOSH.
Ventilation:LOCAL EXHAUST PREFERRED BUT MECHANICAL VENTILATION ACCEPTABLE.
Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.
Eye Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.
Other Protective Equipment:SAFETY SHOES.
Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING CYLINDERS.
Supplemental Safety and Health
NEVER WORK ON A PRESSURIZED SYS
TEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR THE LEAK.

========== 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
Solubility in Water:NEGLIGIBLE
Appearance and Odor:COLORLESS, ODORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE
Percent Volatiles by Volume:100

========== S

tability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES
UNDER CERTAIN CONDITIONS, NITROGEN CAN REACT VIOLENTLY WITH LITHIUM, NEODYMIUM, TITANIUM, OR OZONE.
Stability Condition to Avoid:TEMPERATURES ABOVE 125F.
Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:MOVE LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD. ALLOW GAS TO DISCHARGE AT MODERATE RATE. DISPOSAL SHOULD BE

MADE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND REGULATIONS.