

UNION CARBIDE CORP., LINDE DIV. -- NITROGEN -- 6685-01-040-0064

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

Product ID:NITROGEN

MSDS Date:08/01/1985

FSC:6685

NIIN:01-040-0064

MSDS Number: BSHLV

=== 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:304-744-3487

Emergency Phone Num:800-822-4357/304-744-3487

Preparer's Name:MSDS #: L-4631-B

CAGE:36346

=== 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 RECOMMENDED  
ACGIH TLV:ASPHYXIAN; 9293

===== 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:THIS ITEM IS A THERMOMETER,CONTAINING  
A SMALL VOLUME OF NITROGEN.NITRIGEN IS A SIMPLE ASPHYXIAN,WHEN  
THERE IS ENOUGH TO DISPLACE OXYGEN.  
Explanation of Carcinogenicity:THERE ARE  
NO INGREDIENTS ABOVE 0.1%  
WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.  
Effects of Overexposure:NO HARMFUL EFFECT EXPECTED FROM VAPOR BY SKIN  
OR EYES. LIQUID MAY CAUSE FROSTBITE. ASPHYXIAN. INHALATION MAY  
CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS  
SALIVATION, VOMITING, UNCONSCIOUSNESS. DEATH IS POSSIBLE DUE TO  
LACK OF OXYGEN. THIS PRODUCT IS A GAS AT NORMAL TEMPERATURE &  
PRESSURE.  
Medical Condition 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:INGEST:UNLIKELY ROUTE OF EXPOSURE.PRODUCT IS A GAS.EYE:IN  
CASE OF SPLASH CONTAMINATION,IMMEDIATELY FLUSH THOROUGHLY WITH  
WATER FOR AT LEAST 15 MINUTES.SEE AN OPHTHALMOLOGIST. SKIN:FOR  
EXPOSURE TO LIQUID,IMMEDIATELY WARM FROSTBITE AREA WITH WARM WATER  
(NOT TO EXCEED 1  
05F).CALL A PHYSICIAN,IF NEEDED.INHALED:REMOVE TO  
FRESH AIR.PROVIDE CPR/OXYGEN IF NEEDED.CALL A PHYSICIAN.

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

Extinguishing Media:USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY  
CHEMICAL FOR SURROUNDING FIRE. NITROGEN CANNOT CATCH 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 IF NO RISK

Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. NO PART OF CONTAINER SHOULD BE SUBJECTED TO A TEMPERATURE HIGHER THAN 52C ( 125F). MOST CONTAINERS VENT WHEN HEATED.

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

Spill Release Procedures:NO SPECIAL REQUIREMENTS LIKELY TO BE NEEDED.CHECK TO MAKE SURE THAT THERE IS ENOUGH OXYGEN AVAILABLE.  
Neutralizing Agent:NONE

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

Handling and Storage Precautions:STORAGE-STORE UPRIGHT,IN COOL AREA BELOW 52C.STORE & USE WITH ADEQUATE VENTILATION.CLOSE VALVE WHEN NOT IN USE & WHEN EMPTY.

Other Precautions:CAN CAUSE SERIOUS INJURY OR DEATH. BE SURE TO READ & UNDERSTAND ALL LABELS & OTHER INSTRUCTIONS. NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE CYLINDER VALVE. BLOW DOWN THE SYSTEM BY V ENTING TO A SAFE PLACE, THEN REPAIR IT.

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

Respiratory Protection:NO SPECIAL REQUIREMENTS IN EXPECTED SERVICE.USE A SELF-CONTAINED BREATHING APPARATUS IF THERE IS NOT ENOUGH BREATHING OXYGEN.

Ventilation:LOCAL EXHAUST

Protective Gloves:AS NEEDED

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:NONE

Work Hygienic Practices:USE REASONABLE CARE IN HANDLING THIS MATERIEL.

Supplemental Safety and Health

THERMOMETER CONTAINS 6 GM OF N2; PRESSURE=50-200 PSI.

===== Physical/Chemical Properties =====

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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

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

UNDER CERTAIN CONDITIONS, NITROGEN CAN REACT VIOLENTLY WITH LITHIUM, NEODYMIUM, TITANIUM, OZ

ONE.

Stability Condition to Avoid:TEMPERATURES ABOVE 52 C

Hazardous Decomposition Products:NONE

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

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

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