

AIR LIQUIDE AMERICA CORPORATION -- NITROGEN -- 6830-01-347-3568

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

Product ID:NITROGEN

MSDS Date:08/24/1989

FSC:6830

NIIN:01-347-3568

MSDS Number: CFRJH

=== Responsible Party ===

Company Name:AIR LIQUIDE AMERICA CORPORATION

Box:3047

City:HOUSTON

State:TX

ZIP:77253

Country:US

Info Phone Num:713-868-0440/713-896-2140 MSDS

Emergency Phone Num:713-868-0302

CAGE:AIRLI

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= Contractor Identification ===

Company Name:AIR LIQUIDE AMERICA CORPORATION

Address:2700 POST OAK DRIVE

Box:City:HOUSTON

State:TX

ZIP:77056-8229

Country:US

Phone:713-896-2896;800-231-1366

CAGE:17688

Company Name:AIR LIQUIDE AMERICA CORPORATION

Box:3047

City:HOUSTON

State:TX

ZIP:77253

Country:US

Phone:713-896-2140

CAGE:AIRLI

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMM

ENDED  
ACGIH TLV:ASPHYXIAN; 9596

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Hazards Identification  
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LD50 LC50 Mixture:TLV NONE ESTABLISHED  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:NITROGEN NON-TOXIC BUT MAY CAUSE  
SUFFOCATION BY DISPLACING OXY IN AIR.EXPO TO OXYGEN-DEFICIENT  
ATMOSPHERS MAY CAUSE DIZZ,NAU,VOMIT,DIMINISHED MENTAL  
ALERTNESS,LOSS OF CONSCIOUSNESS,DEATH.IT SHOULD BE RECO  
GNIZED THAT  
COLLAPSE & ASPHYXIATIONMAY OCCUR W/OUT EXPERIENCING ANY OF ABOVE  
SYMPTOMS.NITROGEN SIMPLE ASPHYXIAN.  
Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY:NOT LISTED BY  
IARC/NTP/OSHA.  
Effects of Overexposure:NON-TOXIC, SUFFOCATION BY DISPLACING OXYGEN IN  
AIR-DIZZINESS,NAUSEA,VOMTING,DIMISHED MENTAL ALERTNESS,LOSS OF  
CONSCIOUSNESS,DEATH. COLLAPSE & ASPHYXIATION.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First A  
id Measures  
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First Aid:PERSONS SUFFERING FROM LACK OF OXYGEN SHOULD BE MOVED INTO  
FRESH AIR.IF VICTIM IS NOT BREATHING ADMINISTER ARTIFICIAL  
RESPIRATION.IF BREATHING IS DIFFICULT ADMINISTER OXYGEN.OBTAIN  
PROMPT MED ATTN.SEL F-CONTAINED BREATHING APPARATUS MAY BE REQUIRED  
FOR RESCUE WORKERS.

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Fire Fighting Measures  
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Autoignition Temp:Autoignition Temp Text:NA  
Lower Limits:NA  
Upper Limits:NA  
Extinguishing Media:  
MATL IS NON-FLAM.NITROGEN NEITHER BURNS NOR  
SUPPORTS COMBUSTION.USE EXTINGUISHING MEDIA APPROPRIATE FOR  
SURROUNDING FIRE  
Fire Fighting Procedures:NONE.NITROGEN WILL ACT AS SIMPLE ASPHYXIAN IF  
IT DISPLACES OXY.IF POSSIBLE REMOVE NITROGEN CYL FRM FIRE AREA OR  
COOL W/WATER-AVOIDS EXCESSIVE PRESSURE(SUPPLEM)  
Unusual Fire/Explosion Hazard:PRESSURE CAN BUILDUP DUE TO HEAT & CYL  
MAY EXPLODE IF PRESSURE RELIEF DEVICES SHOULD FAIL TO RELIEVE  
PRESSURE. ELECTRICAL CLASSIFICATION:NO

N-HAZARDOUS.

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

Spill Release Procedures:EVACUATE ALL UNNECESSARY PERSONS FROM AREA.SHUT OFF SOURCE IF POSSIBLE.VENTILATE ENCLSD AREA/REMOVE CYL TO OUTDOOR LOCATION TO PREVENT FORMATION OF OXY-DEFICIENT ATMS.IF LEAKING FRM CNTNR/VALVE CONTA CT CLOSEST BIG THREE INDUSTRIES LOCATION/SUPPLIER

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Hand  
ling and Storage Precautions:STORE/USE W/ADEQU VENTI.CYL SHOULD BE STORED UPRIGHT W/VALVE PROTECTION CAP IN PLACE & FIRMLY SECURE TO PREVENT FALLING/BEING KNOCKED OVER.

Other Precautions:PROTECT CYL FRM PHYS DMG:DONT DRAG,ROLL,SLIDE,DROP.USE SUITABLE HAND TRUCK FOR CYL MOVEMENT.DONT ALLOW TEMP WHERE CYL STORED TO EXCEED 125F(52C).NEVER STRIKE WELD ARC ON ANY COMPRESSED GAS CYL.REFILL CYL W/O CONSENT OF CYL OWNER IS (SUPPLE)

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

Respiratory Protection:USE SELF-CONTAINED BREATHING APPARATUS OR POSITIVE PRESSURE AIR LINE W/MASK IN OXYGEN-DEFICIENT ATMOSPHERES.RESPIRATORS WILL NOT FUNCTION.

Ventilation:ADEQUATE TO AVOID LOWERING OXYGEN CONTENT TO BELOW 19.5%(OXYGEN-DEFICIENT ATMOSPHERE).LOC EXHAU:YES.MECHANICAL:YES.

Eye Protection:SAF GLASSES RECOMMENDED

Other Protective Equipment:SAF SHOES WHEN HNDLG CYLINDERS.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety a  
nd Health

FIREFIGHT:BUIULDUP.SELF-CONTAINED BREATHING APPARATUS MAY BE REQUIRED FOR RESCUE WORKERS. OTHER PRECAUT:VIOLATION OF FED LAW(49CFR).FURTHER INFO ON NITROGEN FOUND IN PAMPHLETS FRM COMPRESSED GAS ASSOC (CGA),1235 JEFF DAVIS HIGHWAY,ARLINGTON,VA 22202,703-979-4341:G-10.1,P-1,P-9,P-14,SB-2

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

HCC:G3

Boiling Pt:B.P. Text:-320F,-196C

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:NA

Vap

or Density:NP  
Spec Gravity:0.967 @70F  
pH:NP  
Viscosity:NP  
Evaporation Rate & Reference:NA-GAS  
Solubility in Water:2.33 SCC/100CC @32F  
Appearance and Odor:COLORLESS, ODORLESS, TASTELESS GAS  
Percent Volatiles by Volume:NA-GAS  
Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES  
NONE  
Stability Condition to Avoid:NONE  
Hazardous Decomposition Products:NONE

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

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Waste Disposal Methods:DONT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED  
QUANTITIES.RETURN TO YOUR SUPPLIER FOR DISPOSAL.FOR EMERG DISPOSAL  
SECURE CYLINDER & VENT SLOWLY TO ATMOSPHERE IN WELL-VENTILATED AREA  
OR OUTDOORS.

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