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Product ID:NITROGEN, REFRIGERATED LIQUID

MSDS Date:07/01/1995

FSC:9135

NIIN:00-965-2526

MSDS Number: CCGGS === Responsible Party ===

Company Name: AIR PRODUCTS AND CHEMICALS INC

Address:7201 HAMILTON BLVD

City:ALLENTOWN

State:PA

ZIP:18195-1501 Country:US

Info Phone Num:800-322-9092/8

00-523-9374

Emergency Phone Num:215-481-4911/800-523-9374

CAGE:00742

=== Contractor Identification ===

Company Name: AIR PRODUCTS AND CHEMICALS INC

Address:7201 HAMILTON BLVD

Box:City:ALLENTOWN

State:PA

ZIP:18195-1501 Country:US

Phone:800-345-3148/800-752-1597

CAGE:00742

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000 Fraction by Wt: >99% ACGIH TLV:ASPHYXIANT

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:LIQUID NITROGEN CAN CAUSE RAPID SUFFOCATION WHEN CONCENTRATIONS ARE SUFFICIENT TO REDUCE OXYGEN LEVELS BELOW 19.5%. CONTACT W/LIQUID/COLD VAPORS CAN CAUSE SEVERE FROSTBITE. INHALATION: SIMPLE ASPHYXIA NT. EYES/SKIN: TISSUE

FREEZING & SEVERECRYOGENIC BURNS.

**Explanation of Carcinogenicity: NONE** 

Effects of Overexposure: DIZZINESS, DROWS

INESS, NAUSEA, VOMITING, EXCESS

SALIVATION, DIMINISHED MENTAL ALERTNESS, LOSS OF CONSCIOUSNESS, DEATH. SKIN CONTACT W/LIQUID NITROGEN: TISSUE FREEZING, BURNS, RED W/FORMATION OF BLISTE RS.

Medical Cond Aggravated by Exposure: NONE

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First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE CPR/OXYGEN IF NEEDED. SKIN: DON'T RUB FROZEN PARTS AS TISSUE DAMAGE MAY RESULT. PLACE IN WARM WATER BATH AT TEMP NOT EXCEEDING 105F

. NEVER USE DRY HEAT. IF

FROZEN PART OF BODY HAS BEEN THAWED, COVER W/DRY STERILE DRESSING W/LARGE BULKY PROTECTIVE COVERING, PENDING MEDICAL CARE. EYES: WARM FROSTBITE W/WARM WATER. OBTAIN MEDICAL ATTENTION IN ALL CASES.

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING AREAS. Fire Fighting Procedures:SIMPLE ASPHYXIANT. REMOVE CONTAINERS W/COOL WATER. DON'T DIRECT WATER SPRAY AT THE CONTAINER VENT. W EAR SCBA.

EVACUATE ARA.

Unusual Fire/Explosion Hazard:LIQUID NITROGEN WHEN SPILLED WILL VAPORIZE RAPIDLY FORMING AN OXYGEN DEFICIENT VAPOR CLOUD. PRESSURE CAN BUILD UP DUE TO HEAT & RUPTURE. (SEE SUPP)

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

Spill Release Procedures:EVACUATE AREA. INCREASE VENTILATION & MONITOR OXYGEN LEVEL. USE PROTECTIVE EQUIPMENT. TO INCREASE RATE OF VAPORIZATION, SPRAY LARGE AMOUNTS OF WATER FROM UPWIND POSITION. DON'T SP

VALVE/VENT.
========== Handling and Storage ============
Handling and Storage Precautions:USE ADEQUATE VENTILATION. DON'T STORE IN CONFINED SPACE. DON'T PLUG, REMOVE/TAMPER W/PRESSURE RELIEF DEVICE. NEVER TOUCH UNINSULATED PIPES/VESSELS.  Other Precautions:HANDLE/STORE IN UPRIGHT POSITION. DON'T DROP, TIP/ROLL CONTAINERS ON THEIR SIDES. DON'T REMOVE/INTERCHANGE CONNECTIONS. USE PROPER CONNECTI  ONS. DON'T USE ADAPTERS. USE PIPING/EQUIPMENT DESIGNED TO W/S TAND PRESSURE.
====== Exposure Controls/Personal Protection =======

RAY WATER DIRECTLY AT LEAK. IN USER SYSTEM, CLOSE CYLINDER

Respiratory Protection:SCBA/POSITIVE PRESSURE AIRLINE W/MASK & ESCAPE PACK ARE TO BE USED IN OXYGEN DEFICIENT ATMOSPHERE. RESPIRATORS WILL NOT FUNCTION.

Ventilation: MECHANICAL: TO PREVENT OXYGEN DEFICIENT ATMOSPHERES