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AIR PRODUCTS AND CHEMICALS, INC. -- NITROGEN OR LIN IN CRYOGENIC LIQUID STATE -- 6830-00-937-7285

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

Product ID:NITROGEN OR LIN IN CRYOGENIC LIQUID STATE

MSDS Date:08/27/1987

FSC:6830

NIIN:00-937-7285

MSDS Number: BHDZN === Responsible Party ===

Company Name: AIR PRODUCTS AND CHEMICALS, INC.

Address: 2043 S 35TH ST

Box:11393 City:TACOMA State:WA

ZIP:98411-0393

Countr y:US

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

Company Name: OXYGEN SALES AND SERVICE INC

Address:2043 S 35TH ST

Box:11393 City:TACOMA State:WA

ZIP:98411-0393 Country:US CAGE:5H199

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

ACGIH TLV:ASPHYXIANT; 91

92
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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:NITROGEN IS ODORLESS AND NONTOXIC, BUT MAY PRODUCE SUFFOCATION BY DILUTING THE CONCENTRATION OF OXYGEN IN AIR BELOW LEVELS NECESSARY TO SUPPORT LIFE. EXPOSURE TO OXYGEN DEFICIENT ATMOSPHERES MAY PROD UCE DIZZINESS, NAUSEA, VOMITING, LOSS OFCONSCIOUSNESS AND DEATH. Eff
ects of Overexposure:PERSONNEL INCLUDING RESCUE WORKERS SHOULD NOT ENTER AREAS WHERE OXYGEN CONCENTRATION IS BELOW 19% UNLESS PROVIDED WITH SELF-CONTAINED BREATHING APPARATUS OR AIRLINE RESPIRATOR. EXTENSIVE TISSUE DAMAGE OR BURNS CAN RESULT FROM EXPOSURE TO LIQUID NITROGEN OR COLD NITROGEN VAPORS. Medical Cond Aggravated by Exposure:NK NK
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First Aid:PERSONS SUFFERING FROM LACK OF OXYGEN SHOULD BE MOVED TO AREAS WITH NORMAL ATMOSPHERES. SELF CONTAINED BREATHING APPARATUS MAYBE REQD TO PREVENT ASPHYXIATION OFRESCUE WORKERS. ASSISTED RESPIRATION AND SUPPLEMENTAL OXYGEN SHOULD BE GIVEN IFVICTIM IS NOT BREATHING. CRYOGENIC BURNS W/RESULT IN BLISTERING OR DEEPER TISSUEFREEZING SHOULD BE SEEN PROMPTLY BY A PHYSICIAN.
Flash Point:NA Lower Limits:NA Upper Limits:NA Extinguishing Media:NA Fire Fighting P rocedures:NA Unusual Fire/Explosion Hazard:NA
========= Accidental Release Measures ==========
Spill Release Procedures:AVOID CONTACT OF SKIN W/LIQUID NITROGEN OR ITS COLD BOILOFF GAS. FLUSH LIQ NITROGEN SPILL W/WTR TO DISPERSE. VENTILATE ENCLOSED AREAS TO PREVENT FORMATION OF OXYGEN-DEFICIENT ATMOSPHERES CAUSED BY EVAPORATION OF LIQUID NITROGEN.

Handling and Storage Precautions:PREVENT CON

VENTS SHOULD BE SITUATED TO AVOID HIGHER THAN NORMAL CONCENTRATION OF NITROGEN IN WORK AREAS.

Boiling Pt:B.P. Text:@1ATM.07273

Other Protective Equipment:NONE Supplemental Safety and Health

Vapor Pres:NA

Vapor Density:1 ATM50.45 Spec Gravity:@ BOILING .808

Appearance and Odor:BOTH LIQUID AND GASEOUS NITROGEN ARE COLORLESS AND

ODORLESS

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

Stability Indicator/Materials to Avoid:YES

NONE

Stability Condition to Avoid:NONE

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

Waste Disposal Methods:ALLOW LIQUID NITROGEN TO EVAPORATE IN A WELL VENT

ILATED OUTDOOR LOCATION REMOTE FROM WORK AREAS. VENT NITROGEN GAS SLOWLY TO A WELL VENTILATED OUTDOORLOCATION REMOVTE FROM WORK AREAS. DO NOT ATTEMPT TO DISPOSE OF RESIDUAL NITROGEN IN CYLINDERS.

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