NIIN:00-313-7703 Status Code:A

MSDS Number: CLNFV === Responsible Party ===

Company Name:PRAXAIR, INC. Address:39 OLD RIDGEBURY RD

City: DANBURY

State:CT

ZIP:06810-5113

Country:US

Info Phone Num:1-800-PRAXAIR

Emergency Ph

one Num:800-645-4633

Resp. Party Other MSDS Num.:P-4631-E Chemtrec Ind/Phone:(800)424-9300

CAGE:0LV01

=== Contractor Identification === Company Name:PRAXAIR, INC. Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06810-5113

Country:US

Phone:800-772-9247; 800-PRAXAIR

CAGE:0LV01

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

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

> Wt:99.

ACGIH TLV:SIMPLE ASPHYXIANT

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

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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EMERGENCY OVERVIEW: CAUTION! HIGH PRESSURE GAS. CAN CAUSE RAPID SUFFOCATION. MAY CAUSE DIZZINESS AND DROWSINESS. SELF-CONTAINED BREATHING APPARATUS REQUIRED BY RESCUE WORKERS. ODOR: NONE. INHALATION: ASPHYXIANT. EFFECTS ARE DUE TO LACK OF OXYGEN. MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING UNCONSCIOUSN

- ESS. LACK OF OXYGEN CAN KILL. AC UTE EFFECTS: SKIN
  CONTACT: NO HARM EXPECTED. EYE CONTACT: NO HARM EXPECTED.
  SWALLOWING: THIS PRODUCT IS A GAS AT NORMAL TEMPERATURE AND
  PRESSURE. CHRONIC EFFECTS: NO HARM EXPECTED. NITROGEN IS AN ASP
  HYXIANT. LACK OF OXYGEN CAN KILL.
- Explanation of Carcinogenicity:NITROGEN IS NOT LISTED BY NTP, OSHA, OR IARC.
- Effects of Overexposure:INHALATION: ASPHYXIANT. EFFECTS ARE DUE TO LACK OF OXYGEN. MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROW SINESS.
  - DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING, AND UNCONSCIOUSNESS. LACK OF OXYG EN CAN KILL. SKIN/EYE: NO HARM EXPECTED. SWALLOWING: THIS PRODUCT IS A GAS AT NORMAL TEMPERATURE AND PRESSURE.
- Medical Cond Aggravated by Exposure: THE TOXICILOGY AND THE PHYSICAL AND CHEMICAL PROPERTIES OF NITROGEN SUGGEST THAT OVEREXPOSURE IS UNLIKELY TO AGGRAVATE EXISTING MEDICAL CONDITIONS.

=======================================	First Aid Measures	
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## First Aid: INHALT

ION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE
ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, QUALIFIED
PERSONNEL MAY GIVE OXYGEN. CALL A PHYSICIAN. SKIN: FLUSH WITH
WATER. SWALLOWING: THI S PRODUCT IS A GAS AT NORMAL TEMPERATURE AND
PRESSURE. EYE: FLUSH EYES WITH WARM WATER. HOLD THE EYELIDS OPEN
AND AWAY FROM THE EYEBALLS TO ENSURE THAT ALL SURFACES ARE FLUSHED
THOROUGHLY.

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

Extinguishing Media:N

ITROGEN CANNOT CATCH FIRE. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:HIGH PRESSURE GAS. EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY DELUGE CYLINDERS WITH WATER FROM MAXIMUM DISTANCE UNTIL COOL, THEN MOVE AWAY FROM FIRE AREA IF WITHOUT RISK. SELF-CONTAINED BREA THING APPARATUS MAY BE REQUIRED BY RESCUE WORKERS. ON SITE FIRE BRIGADES MUST COMPLY WITH OSHA 29CFR1910.156. Unusual Fire/Explosion Hazard:NITROGEN CANNOT CATCH FIRE. HEAT OF FIRE

CAN BUILD PRESSURE IN CYLINDER AND CAUSE IT TO RUPTURE. NO PART OF CYLINDER SHOULD BE SUBJECTED TO A TEMPERATURE HIGHER THAN 125F (52C). NITROGEN CYLINDERS ARE EQUIPPED WITH A PRESSURE RELIEF DEVICE (EXCEPTIONS MAY EXIST WHERE AUTHORIZED BY DOT.)

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	Application Delega	เอต เพิ่มผลอนเพื่อ	

- Spill Release Procedures:CAUTION! HIGH PRESSURE GAS. IMMEDIATELY EVACUATE ALL PERSONNEL FROM DANGER AREA. NITROGEN IS AN ASPHYXIANT! LACK OF OXYGEN CAN KILL. US
- E SELF-CONTAINED BREATHING APPARATUS
  WHERE NEEDED. SHUT OFF FLOW IF YOU CAN DO SO WITHOUT RISK.
  VENTILATE AREA OR MOVE CYLINDER TO A WELL-VENTILATED AREA. TEST FOR SUFFICIENT OXYGEN, ESPECIALLY IN CONFINED SPACES, BEFORE ALLOWING REENTRY.

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

Handling and Storage Precautions:STORE AND USE WITH ADEQUATE VENTILATION. FIRMLY SECURE CYLINDERS UPRIGHT TO KEEP THEM FROM FALLING OR BEING KNOCKED OVER. SCREW VALVE

PROTECTION CAP FIRMLY IN

PLACE BY HAND. STORE ONLY WHERE TEMPERATU RE WILL NOT EXCEED 125F(52C). STORE FULL AND EMPTY CYLINDERS SEPERATELY.

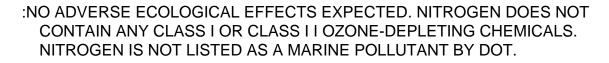
Other Precautions:USE A FIRST IN, FIRST-OUT INVENTORY SYSTEM TO PREVENT STORING FULL CYLINDERS FOR LONG PERIODS. PROTECT CYKINDERS FROM DAMAGE. OPEN VALVE SLOWLY. IF VALVE IS HARD TO OPEN, DISCONTINUE USE AND CONTACT Y OUR SUPPLIER.

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

Respiratory Protection: NONE REQUIRED

UNDER NORMAL USE. AIR SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. RESPIRATORY PROTECTION MUST CONFORM TO OSHA RULES AS SPECIFIED IN 29 CFR1910.1 34. Ventilation: USE LOCAL EXHAUST SYSTEM, IF NECESSARY, TO PREVENT OXYGEN DEFICIENCY. MECHANICAL: GENERAL EXHAUST VENTILATION ACCEPTABLE IF IT CAN MAINTAIN ADEQUATE AIR SUPPLY. Protective Gloves: WORK GLOVES WHEN HANDLING CYLINDERS. Eye Protection: SAFETY GLASSES WHEN HANDLING CYLINDERS. Other Protective Equipment: METATARSAL SHOES FOR CYLINDER HANDLING. SELECT IN ACCORDANCE WITH OSHA 29 CFR1910.132 AND 1910.133. REGARDLESS OF PROTECTIVE EQUIPMENT, NEVER TOUCH LIVE ELECTRICAL PARTS. Supplemental Safety and Health THIS ITEM IS THE NITROGEN SUPPLY PART OF A RADIO PRESSURIZING KIT DESIGNED TO MAINTAIN PERMANENT PRESSURE IN A ANTENNA TUNER. ======== Physical/Chemical Properties =========== HCC:G3 Boiling Pt:=-195.8C, -320.4F Melt/Freeze Pt:=-209.9C, -3 45.8F Vapor Density: 0.072BL/FT Volatile Org Content %:100 Spec Gravity: 0.967 (AIR=1) @ 70F, 1ATM Evaporation Rate & Deference: GAS, N/A (BUAC=1) Solubility in Water: 0.023 % BY WT @ 32F. Appearance and Odor: COLORLESS, ODORLESS, TASTELESS GAS AT NORMAL TEMPERATURE AND PRESSURE. Percent Volatiles by Volume:100% ======== Stability and Reactivity Data =========== Stability Indicator/Materials to Avoid:YES NONE CURRENTLY KNOWN. NITROGEN IS CHEMICALLY INERT. Stability Conditio n to Avoid: UNDER CERTAIN CONDITIONS, NITROGEN CAN REACT VIOLENTLY WITH LITHIUM, NEODYMIUM, TITANIUM, MAGNESIUM TO FORM NITRIDES. AT HIGH TEMPERATURE IT CAN COMBINE WITH OXYGEN AND HYDROGEN. Hazardous Decomposition Products: NONE Conditions to Avoid Polymerization: WILL NOT OCCUR.

Ecological



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

Waste Disposal Methods:DISCARD PRODUCT, RESIDUE, DISPOSABLE CONTAINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER. IN COMPLIANCE WITH FEDERAL, STATE, LOCAL REGULATIONS. DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITES. RETURN CYLIN

DER TO SUPPLIER. FOR

EMERGENCY DISPOSAL, SECURE CYLINDER IN A WELL-VENTILATED AREA OR OUTDOORS, THEN SLOWLY DISCHARGE GAS TO ATMOSPHERE.

======== MSDS Transport Information ===========

Transport Information:DOT / IMO SHIPPING NAME: NITROGEN, COMPRESSED; HAZARD CLASS: 2.2; UN 1066; LABEL: NONFLAMMABLE GAS; PLACARD (WHEN REQUIRED): NONFLAMMABLE GAS; PRODUCT RQ: NOT APPLICABLE. SPECIAL SHIPPING INFORMATION: CYLINDERS SHOULD BE TRANSPORTED IN A SECURE

POSITION, IN A WELL-VENTILATED VEHICLE. CYLINDERS TRANSPORTED IN AN ENCLOSED, NONVENTILATED COMPARTMENT OF A VEHICLE CAN PRESENT SERIOUS SAFETY HAZARDS. SH IPMENT OF COMPRESSED GAS CYLINDERS THAT HAVE BEEN FILLED WITHOUT OWNER'S CONSENT IS A VIOLATION OF FEDERAL LAW [49 CFR 173.301 (B)].

========== Regulatory Information ===============

SARA Title III Information:SECTIONS 302/304: REQUIRE EMERGENCY PLANNING BASED ON THRESHOLD PLANNING QUANTITY (TPQ) AND RELEASE REPORTING

BASED ON REPORTABLE QUANTITY (RQ) OF EXTREMELY HAZARDOUS SUBSTANCES (40 CFR PART 355): TP Q: NONE; EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): NONE. SECTIONS 311/312: REQUIRE SUBMISSION OF MSDS AND CHEMICAL INVENTORY REPORTING WITH IDENTIFICATION OF EPA HAZARD CATEGORIES. FOR THIS PRODUCT: IMMEDIATE: NO; DELAYED: NO; PRESSURE: YES; REACTIVITY: NO; FIRE: NO. SECTION 313: NITROGEN DOES NOT REQUIRE REPORTING UNDER SECTION 313.

Federal Regulatory Info

rmation:EPA: CERCLA: REPORTABLE QUANTITY (RQ):

NONE. 40 CFR 68: NITROGEN IS NOT LISTED AS A REGULATED SUBSTANCE. TSCA: NITROGEN IS LISTED ON THE TSCA INVENTORY. 29 CFR 1910.119: NITROGEN IS NOT LISTED IN APPE NDIX A AS A HIGHLY HAZARDOUS CHEMICAL.

State Regulatory Information:CALIFORNIA: THIS PRODUCT IS NOT LISTED BY CALIFORNIA UNDER THE SAFE DRINKING WATER TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65). PENNSYLANNIA: THIS PRODUCT IS SUBJECT TO THE PENNSYLVANIA WORKER

AND COMMUNITY RIGHT-TO-KNOW ACT (35 P.S. SECTIONS 7310-7320).

============= Other Information =============================

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