

PRAXAIR, INC. -- NITROEGN (CRYOGENIC) -- 6830-01-028-9402

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Product Identification
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Product ID:NITROEGN (CRYOGENIC)

MSDS Date:12/01/1992

FSC:6830

NIIN:01-028-9402

MSDS Number: BSWZM

=== Responsible Party ===

Company Name:PRAXAIR, INC.

Address:39 OLD RIDGEBURY ROAD

City:DANBURY

State:CT

ZIP:06810-5113

Country:US

Info Phone Num:203-794-5783

Emergency Phone Num:800-424-9300 CHEMTREC

CAGE:0U

TY7

=== 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

Company Name:PRAXAIR, INC.

Address:39 OLD RIDGEBURY ROAD

Box:City:DANBURY

State:CT

ZIP:06810-5113

Country:US

Phone:203-794-5783

CAGE:0UTY7

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Composition/Information on Ingredients
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Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMM

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===== 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:ACUTE: INHALATION OF HIGH
CONCENTRATIONS MAY CAUSE ASPHYXIATION. CONTACT OF LIQUID NITROGEN
MAY CAUSE FROSTBITE TO SKIN. SWALLOWING MAY CAUSE FROSTBITE TO
MOUTH, THROAT AND ESOPHAGUS. CHRONIC: NONE SPE CIFIED BY
MANUFACTURER.

Explanation of
Carcinogenicity:NITROGEN IS NOT LISTED AS A CARCINOGEN
OR SUSPECTED CARCINOGEN BY NTP, IARC, OR OSHA.
Effects of Overexposure:INHALATION: HEADACHE, DROWSINESS, DIZZINESS,
EXCITATION, EXCESS SALAVATION, VOMITING, UNCONSCIOUSNESS, POSSIBLY
DEATH. SKIN: PAIN, REDNESS TO WHITE SKIN, POSSIBLE BLISTERS.
SWALLOWED: SAME AS SKIN.
Medical Cond Aggravated by Exposure:THE TOXICOLOGY AND
PHYSICAL/CHEMICAL PROPERTIES OF THE MATERIAL DO NOT SUGGEST THAT
OVEREXPOSURE IS LIKELY TO AGGRA
VATE EXISTING MEDICAL CONDITIONS.

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===== First Aid Measures =====

First Aid:SKIN: INNEDIATELY WARM FROSTBITE AREA WITH WARM(!) WATER. IN
CASE OF MASSIVE EXPOSURE, REMOVE CLOTHING WHILE SHOWERING WITH WARM
WATER. GET MEDICAL ATTENTION. INHALED: REMOVE TO FRESH AIR. GIVE
ARTIFI CIAL RESPIRATION. GIVE OXYGEN IF BREATHING IS DIFFICULT. GET
MEDICAL ATTENTION. EYES: IMMEDIATELY FLUSH WITH WARM WATER FOR AT
LEAST 15 MINUTES. GET IMMEDIATE MEDIC
AL ATTENTION.

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

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
PROTECTIVE CLOTHING. EVACUATE ALL PERSONNEL FROM DANGER AREA. MOVE
CONTAINERS FROM IF WITHOUT RISK.
Unusual Fire/Explosion Hazard:CLOSED CONTAINER MAY RUPTURE DUE TO HEAT
OF FIRE.LIQUID NITROGEN WILL FREEZE WATER RAPIDLY.CONTAINERS ARE
PROVIDED WITH PRESSURE RELEASE VA

LVES,RELEASE IF HEATD

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

Spill Release Procedures:IMMEDIATELY EVACUATE PERSONNEL FROM DANGER AREA. ALLOW SPILLED PRODUCT TO EVAPORATE. WEAR SCBA. SHUT OFF LEAK IF WITHOUT RISK. MOVE LEAKING CYLINER TO VENTILATED AREA OR VENTILATE AREA OF LEAK. TEST F OR SUFFICIENT OXYGEN PRIOR TO PERMITTING RE-ENTRY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====
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Handling and Storage Precautions:PROTECT CONTAINERS FROM PHYSICAL DAMAGE. STORE AND USE WITH ADEQUATE VENTILATION. CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY.

Other Precautions:USE PIPING AND EQUIPMENT ADEQUATELY DESIGNED TO WITHSTAND PRESSURES AND TEMPERATURS TO BE ENCOUNTERED. DO NOT GET LIQUID IN EYES, ON SKIN OR CLOTHING. NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER, VENT, REPAIR.

===== Exposure Controls/Personal Protection =====
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Respiratory Protection:NONE NORMALLY REQUIRED. AIR SUPPLIED RESPIRATORS REQUIRED WHEN USING IN CONFINED SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION MUST CONFORM WITH OSHA RULES AS SPECIFIED IN 29 CFR 1910.134.

Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST, IF NEEDED, TO PREVENT BUILD-UP OF OXYGEN DEFICIENT ATMOSPHERE.

Protective Gloves:LOOSE-FITTING CRYOGENIC GLOVES

Eye Protection:SELECT IAW 29 CFR 1910.133.

Other Protective Equipment:ME

TATARSAL SHOES FOR CYLINDER HANDLING.

PROTECTIVE CLOTHING WHERE NEEDED. CUFFLESS TROUSERS OUTSIDE THE SHOES.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

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

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:0.808 @ -196C

Evaporation Rate & Reference:HIGH (N-BUTYL ACETATE=1)

Solubility in Water:NEGLI

GIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS IN CYLINDER.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

NONE CURRENTLY KNOWN.

Stability Condition to Avoid:HEAT

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE OUTDOORS. DISPOSE
OF IN ACCORDNCE WITH LOCAL, STATE AND FEDERAL REGULA
TIONS.

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