

PRAXAIR INC. -- NITROGEN -- 6830-00-577-4623

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

Product ID:NITROGEN

MSDS Date:12/01/1992

FSC:6830

NIIN:00-577-4623

MSDS Number: BQSFN

=== Responsible Party ===

Company Name:PRAXAIR INC.

Address:39 OLD RIDGEBURY ROAD

City:DANBURY

State:CT

ZIP:06810-5113

Country:US

Info Phone Num:203-794-5782/800-424-9300(CHEMTREC)

Emergency Phone Num:203-794-5782/800-424-9300(CHEMTRE
C)

CAGE:EO188

=== Contractor Identification ===

Company Name:PRAXAIR INC.

Address:39 OLD RIDGEBURY RD.

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:203-794-5782

CAGE:EO188

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:UNITED STATES WELDING INC

Address:1221 S CLARKSON ST

Box:City:DENVER

State:CO

ZIP:80210

Country:US

Phone:303-777-2475/818-341-2021

CAGE:0EE28

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

Ingred Name:NITROGEN
CAS:7727-37-9
RTECS #:QW9700000
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:ASPHYXIAN; 9293

==== Hazards Identification =====

LD50 LC50 Mixture:LD50 ORAL RAT IS NOT APPLICABLE.
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 A SIMPLE ASPHYXIAN.
NITR
OGEN UNDER HIGH PRESSURE CAN PRODUCE NARCOSIS.
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS
LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.
Effects of Overexposure:INHALATION: MODERATE CONCENTRATIONS MAY CAUSE
DIZZINESS, NAUSEA, VOMITING, LOSS OF CONSCIOUSNESS, AND DEATH.
Medical Cond Aggravated by Exposure:NONE NOTED.

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

First Aid:INHALATION: REMOVE SUBJECT TO FRESH AIR. RESCUE WORKERS, WEAR
SCBA. GIVE OXYGEN/CPR AS NEEDED. NOTE TO PHYSICIAN: NO SPECIFIC
ANTIDOTE. TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS
AND THE CLINICAL CONDITION.

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

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE
FOR SURROUNDING FIRE.
Fire Fighting Procedures:EVACUATE PERSONNEL. IMMEDIATELY DELUGE
CONTAINERS WITH WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL, THEN
MOVE CONTAINERS AWAY FROM
FIRE AREA IF WITHOUT RISK.
Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF
FIRE. MOST CONTAINERS ARE DESIGNED TO VENT CONTENTS WHEN THEY ARE
EXPOSED TO ELEVATED TEMPERATURES.

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

Spill Release Procedures:EVACUATE PERSONNEL. USE SELF-CONTAINED
BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAK IF WITHOUT RISK.
VENTILATE OR MOVE LEAKING CONTAINER TO WELL-VENTILATED AREA. TEST
AREA, ESPECIALLY CONF

INED AREA S, FOR OXYGEN CONTENT PRIOR TO PERMITTING REENTRY.

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

Handling and Storage Precautions:USE ONLY IN WELL VENTILATED AREAS.
CONTAINS NITROGEN AT EXTREMELY HIGH PRESSURE. CLOSE VALVE WHEN NOT
IN USE AND WHEN EMPTY.

Other Precautions:AVOID DRAGGING,ROLLING OR SLIDING CYLINDERS.USE HAND
TRUCK.STORE OUTSIDE.KEEP AWAY FROM HEAT,FLAMES AND COMBUSTIBLE
MATERIALS.KEEP AWAY FROM HEAVY TRAFFIC AREAS.AVOID EXPOSU
RE TO SALT
OR OTHER CORROSI VE CHEMICALS.REPLACE CAP WHEN NOT IN USE

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

Respiratory Protection:USE SCBA IN OXYGEN-DEFICIENT ATMOSPHERES.
CAUTION! RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN
ASPHYXIATION.

Ventilation:MECHANICAL (GENERAL) VENTILATION AND/OR LOCAL EXHAUST AS
NECESSARY.

Protective Gloves:LEATHER WORK GLOVES.

Eye Protection:SAFETY GLASSES.

Other Protective Equipment:OXYGEN MONITORING EQUIPMENT TO
TEST FOR

OXYGEN DEFICIENT ATMOSPHERES. SAFETY SHOES FOR CYLINDER HANDLING.

Work Hygienic Practices:STANDARD HYGENIC PRACTICES.

Supplemental Safety and Health

HIGH PRESSURE GAS. USE PIPING AND EQUIPMENT DESIGNED TO WITHSTAND
PRESSURES TO BE ENCOUNTERED. MIXTURES: WHEN TWO OR MORE GASES ARE
MIXED, THEIR PROPERTIES MAY COMBINE TO CREATE ADDITIONAL, UNEXPECTE
D HAZARDS. OBTAIN AND EVALUATE THE SAFETY INFORMATION FOR EACH
COMPONENT BEFORE YOU PRODUCE THE MIXTURE.

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

HCC:G3

Vapor Density:0.967

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS.

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

Stability Indicator/Materials to Avoid:YES
UNDER CERTAIN CONDITIONS NITROGEN CAN REACT VIOLENTLY WITH LITHIUM,
NEODYMIUM, TITANIUM, OZONE.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products:NONE.

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===== Disposal Consi

derations =====

Waste Disposal Methods: VENT NITROGEN GAS SLOWLY TO A WELL VENTILATED OUTDOOR LOCATION REMOTE FROM WORK AREAS. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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