

PRAXAIR INC -- NITROGEN -- 4210-01-250-6424

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

Product ID:NITROGEN
MSDS Date:12/01/1992
FSC:4210
NIIN:01-250-6424
MSDS Number: CCCGK
=== Responsible Party ===
Company Name:PRAXAIR INC
Address:39 OLD RIDGEBURY RD
City:DANBURY
State:CT
ZIP:06817-0001
Country:US
Info Phone Num:203-794-5782
Emergency Phone Num:203-794-5782
CAGE:0LV01
=== Contractor Identification ===
Co
mpany Name:ALL-SAFE INC
Address:4767 LANGTON RD
Box:116
City:HILLIARD
State:OH
ZIP:43026
Country:US
Phone:614-876-4041
CAGE:2X264
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
Fraction by Wt: 100%
Other REC Limits:NONE RECOMMENDED
ACGIH TLV:ASPHYXIAN; 9596

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

LD50 LC50 Mixture:NOT GIVEN FOR PRODUCT AS A WHOLE

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:ASPHYXIAN. INHALATION OF MODERATE CONCENTRATIONS MAY CAUSE HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING, UNCONSCIOUSNESS. LACK OF OXYGEN CAN CAUSE DEATH. NO HARMFUL EFFECT S EXPECTED FROM SKIN CONTACT WITH

GAS. SKIN CONTACT WITH LIQUID MAY CAUSE FROSTBITE.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:HEADACHE, DROWSINESS, DIZZINESS, EXCITATION, EXCESS SALIVATION, VOMITING, UNCONSCIOUSNESS, DEATH, FROSTBITE.

Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:FOR

EXPOSURE TO LIQUID, IMMEDIATELY WARM FROSTBITE AREA WITH WARM WATER (NOT TO EXCEED 105F). CALL A PHYSICIAN. IF INHALED, REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYG EN IF BREATHING IS DIFFICULT. CALL A PHYSICIAN. IN CASE OF EYE CONTACT, IMMEDIATELY FLUSH EYES WITH WATER. SEE A PHYSICIAN IMMEDIATELY.

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

Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extin

guishing Media:NONFLAMMABLE. USE EXTINGUISHING MEDIA SUITABLE FOR SURROUNDING FIRE.

Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA. IMMEDIATELY DELUGE CONTAINERS SITH WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL, THEN MOVE AWAY FROM FIRE AREA.

Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. NO PART OF CONTAINER SHOULD BE SUBJECTED TO TEMPERATURES HIGHER THAN 52C. MOST CONTAINERS ARE DESIGNED TO VENT.

===== Accidental R

Release Measures =====

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA. USE SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAK IF WITHOUT RISK. VENTILATE AREA OF LEAK OR MOVE LEAKING CONTAINER TO WELL-VENTILATED AREA. TEST FOR OXYGEN PRIOR TO REENTRY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:HIGH PRESSURE GAS. USE PIPING AND

EQUIPMENT DESIGNED TO WITHSTAND PRESSURES TO BE ENCOUNTERED. CAN CAUSE RAPID SUFFOCATION DUE TO OXYGEN DEFICIENCY.

Other Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO A SAFE PLACE, THEN REPAIR LEAK. STORE AND USE WITH ADEQUATE VENTILATION. CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER, AIR

SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION USED MUST CONFORM WITH OSHA RULES AS SPECIFIED IN 29 CFR 1910.134.

Ventilation:USE LOCAL EXHAUST SYSTEM, IF NECESSARY, TO PREVENT THE BUILD UP OF AN OXYGEN DEFICIENT ATMOSPHERE.

Protective Gloves:PREFERRED FOR CYLINDER HANDLING

Eye Protection:SELECT IAW OSHA 29 CFR 1910.133.

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING AS NECESSARY TO

PREVENT SKIN CONTACT. AN EMERGENCY EYEWASH AND SHOWER SHOULD BE AVAILABLE.

Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

WHEN TWO OR MORE GASES OR LIQUIFIED GASES ARE MIXED, THEIR HAZARDOUS PROPERTIES MAY COMBINE TO CREATE ADDITIONAL, UNEXPECTED HAZARDS. OBTAIN AND EVALUATE THE SAFETY INFORMATION FOR EACH COMPONENT BEFORE YOU PRODUCE THE MIXTURE.

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

HCC:G3
Boiling Pt:B.P. Text:385F,196C
Melt/Freeze Pt:M.P/F.P Text:-346F,-210C
Vapor Pres:GAS
Vapor Density:0.967
Spec Gravity:GAS
Evaporation Rate & Reference:NOT GIVEN
Solubility in Water:NEGLIGIBLE
Appearance and Odor:COLORLESS, ODORLESS GAS
Percent Volatiles by Volume:100%

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

Stability Indicator/Materials to Avoid:YES
LITHIUM, STANIUM, OZONE.
Stability Condition to Avoid:EXTREME TEMPERATURES
Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:SLOWLY RELEASE INTO ATMOSPHERE. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER OR LINER IN AN ENVIRONMENTALLY ACCEPTABLE MANNER IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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