

NITROGEN

MSDS Number

BKJPJ

National Stock Number

4230-00-775-7541

Product Name

NITROGEN

Manufacturer

AIRCO INC AIRCO INDUSTRIAL GASES DIV

Product Identification

Product ID:NITROGEN
MSDS Date:08/15/1989
FSC:4230
NIIN:00-775-7541
MSDS Number: BKJPJ

Responsible Party

AIRCO INC, AIRCO INDUSTRIAL GASES DIV
575 MOUNTAIN AVE
MURRAY HILL , NJ 07974-2006
US
Emergency Phone: 201-464-8100/CHEMTREC 800-424-9300
Cage: 00741

Contractor

AIRCO INC, AIRCO INDUSTRIAL GASES DIV.
MURRAY HILL, NJ 07974-2006
US
800-424-9300(CHEMTREC)
Cage: 00741

Ingredients

NITROGEN
CAS: 7727-37-9
RTECS: QW9700000
Fraction By Weight: 99.995%
ACGIH TLV: ASPHYXIAN; 9192

Hazards

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 NON-TOXIC BUT THE
LIBERATION OF A LARGE AMOUNT IN A CONFINED AREA COULD DISPLACE THE
AMOUNT OF OXYGEN IN AIR.IT IS DEFINED AS A SIMPLE
ASPHYXIAN.INHALATION:DIZZINESS,UNCONSCIOUSNESS,DEATH .CHRONIC-NOT
GIVEN.
Effects of Overexposure:INHALATION:HIGH CONCENTRATION OF NITROGEN
DISPLACES OXYGEN IN AIR NECESSARY FOR LIFE AND MAY CAUSE LOSS OF
BALANCE/DIZZINESS, TIGHTNESS IN THE FRONTAL AREA OF THE FOREHEAD &
TINGLING IN THE TONGUE,FIN GERTIPS/TOES,WEAKENED SPEECH,REDUCED
CONSCIOUSNESS,LOSS OF TACTILE SENSATIONS AND HEIGHTENED MENTAL

ACTIVITY.

Medical Cond Aggravated by Exposure:NONE GIVEN.

First Aid

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO THIS GAS.RESCUE PERSONNEL SHOULD BE EQUIPPED WITH SELF-CONTAINED BREATHING APPARATUS.INHALATION:CONSCIOUS PERSONS SHOULD BE ASSISTED TO AN UNCONTAMINATED AREA AND INHALE FRESH AIR.QUICK REMOVAL FROM THE CONTAMINATED AREA IS MOST IMPORTANT.UNCONSCIOUS PERSONS SHOULD BE MOVED TO FRESH AIR,GIVEN CPR AND SUPPLEMENTAL OXYGEN.

Fire Fighting

Extinguishing Media:NONFLAMMABLE, INERT GAS
Fire Fighting Procedures:NON-FLAMMABLE AND WILL NOT SUPPORT COMBUSTION.
Unusual Fire/Explosion Hazard:NON-FLAMMABLE. NO UNUSUAL HAZARD EXCEPT WHEN COMPRESSED GAS IS EXPOSED TO A FIRE,CONTAINERS MAY RUPTURE VIOLENTLY IF SAFETY DEVICES FAIL TO RELIEVE PRESSURE.

Accidental Release

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA.TO ENTER SPILL AREA,USE SELF-CONTAINED BREATHING EQUIPMENT.MAINTAIN ADEQUATE VENTILATION.IF LEAK IS IN CONTAINER OR CONTAINER VALVE,CONTACT YOUR SUPPLIER OR CALL THE EMERGENCY TELEPHONE NUMBER LISTED HEREIN.

Neutralizing Agent:NONE

Handling

Handling and Storage Precautions:STORAGE-STORE UPRIGHT,IN A COOL,DRY,WELL VENTILATED AREA.PROTECT CYLINDER FROM PHYSICAL DAMAGE.
Other Precautions:USE ONLY IN WELL-VENTILATED AREAS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS CONTAINER IS SECURED. DO NOT DRAG, SLIDE OR ROLL CYLINDERS. USE A HAND TRUCK. DO NOT HEAT CYLINDER BY ANY MEANS.

Exposure Controls

Respiratory Protection:POSITIVE PRESSURE AIR LINE WITH MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.
Ventilation:LOCAL EXHAUST TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS SO AS TO REDUCE THE OXYGEN LEVEL IN THE AIR < 19.5 %

Protective Gloves:COTTON OR LEATHER

Eye Protection:SAFETY GLASSES OR GOGGLES

Other Protective Equipment:LOW OXYGEN ALARM WHERE NECESSARY;SAFETY SHOES.

Work Hygienic Practices:WASH HANDS.DO NOT SMOKE.

Supplemental Safety and Health

Chemical Properties

HCC:G3
Boiling Pt:B.P. Text:-320F,-196C
Melt/Freeze Pt:M.P/F.P Text:-346F,-210C
Vapor Density:0.97
Spec Gravity:0.809 @ B.P.
Evaporation Rate & Reference:GAS
Solubility in Water:VERY SLIGHTLY
Appearance and Odor:COLORLESS, ODORLESS GAS
Percent Volatiles by Volume:100

Stability

Stability Indicator/Materials to Avoid:YES
INERT EXCEPT AT HIGH TEMPERATURES.
Hazardous Decomposition Products:NONE

Disposal

Waste Disposal Methods:NO WASTE DISPOSAL PROBLEM. GAS WILL DIFFUSE INTO ATMOSPHERE. DO NOT ATTEMPT TO DISPOSE OF UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS AND VALVE PROTECTION CAP IN PLACE TO AIRCO.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.