

## **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.

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