

NITROGEN

MSDS Number

BKBDN

National Stock Number

6830-00-764-8825

Product Name

NITROGEN

Manufacturer

AIRCO DIV OF THE BOC GROUP INC

Product Identification

Product ID:NITROGEN
MSDS Date:03/01/1986
FSC:6830
NIIN:00-764-8825
MSDS Number: BKBDN

Responsible Party

AIRCO, DIVISION OF THE BOC GROUP, INC.
575 MOUNTAIN AVENUE
MURRAY HILL , NJ 07974
US

Emergency Phone: 800-424-9300 CHEMTREC

Info Phone: 201-464-8100

Cage: IO644

Contractor

AIRCO, DIVISION OF THE BOC GROUP, INC.
MURRAY HILL, NJ 07974
US
201-464-8100
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Ingredients

NITROGEN
CAS: 7727-37-9
RTECS: QW9700000
ACGIH TLV: ASPHYXIAN; 9192

Hazards

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Health Hazards Acute and Chronic:EFFECTS OF EXPOSURE TO HIGH CONCENTRATIONS SO AS TO DISPLACE THE OXYGEN IN AIR NECESSARY FOR LIFE MAY INCLUDE ANY, ALL OR NONE OF THE FOLLOWING: LOSS OF BALANCE OR DIZZINESS, TIGHTNESS IN THE FRONTAL AREA OF THE FOREHEAD, TINGLING OF THE TONGUE, FINGERTIPS OR TOES, WEAKENED SPEECH LEADING TO THE INABILITY TO UTTER *
Effects of Overexposure:*SOUNDS, RAPID REDUCTION IN THE ABILITY TO PERFORM MOVEMENTS, REDUCED CONSCIOUSNESS OF THE SURROUNDINGS, LOSS OF TACTILE SENSATIONS, HEIGHTENED MENTAL ACTIVITY. IT SHOULD BE RECOGNIZED THAT IT IS POSSIBLE THAT NONE OF THE ABOVE SYMPTOMS MAY OCCUR IN NITROGEN ASPHYXIA SO THAT THERE ARE NO DEFINITE WARNING

SYMPTOMS.

Medical Cond Aggravated by Exposure:TOXICOLOGICAL PROPERTIES: NITROGEN IS NONTOXIC BUT THE LIBERATION OF A LARGE AMOUNTS IN A CONFINED AREA COULD DISPLACE THE AMOUNT OF OXYGEN IN AIR NECESSARY TO SUPPORT LIFE.

First Aid

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO NITROGEN. INHALE: 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 AN UNCONTAMINATED AREA, GIVEN ARTIFICIAL RESPIRATION AND SUPPLEMENTAL OXYGEN. MEDICAL ATTENTION SHOULD BE SOUGHT IMMEDIATELY.

Fire Fighting

Extinguishing Media:NONFLAMMABLE, INERT GAS

Accidental Release

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CONTACT THE CLOSEST AIRCO LOCATION OR CALL CHEMTREC: 800-424-9300.

Handling

Handling and Storage Precautions:PROTECT FROM PHYSICAL DAMAGE. STORE IN COOL, DRY, WELL-VENTILATED AREA AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXITS. NO TEMP ABOVE 130F. *

Other Precautions:*CYLINDERS TO BE STORED UPRIGHT & FIRMLY SECURED TO PREVENT FALLING OR BEING KNOCKED OVER. FULL & EMPTY CYLINDERS SHOULD BE SEGREGATED. ROTATE STOCK. USE ONLY IN WELL-VENTILATED AREAS. VALVE PROTECTION CAPS MUST REMAIN IN PLACE UNLESS **

Exposure Controls

Respiratory Protection:POSITIVE PRESSURE AIRLINE WITH MASK OR SELF-CONTAINED BREATHING APPARATUS SHOULD BE AVAILABLE FOR EMERGENCY USE.

Ventilation:LOCAL EXHST:PREVENT ACCUMULATION OF HIGH CONCN SO AS TO REDUCE THE OXYGEN LEVEL IN THE AIR TO LESS THAN 18 MOLAR PERCENT

Protective Gloves:ANY MATERIAL.

Eye Protection:SAFETY GOGGLES OR GLASSES.

Other Protective Equipment:SAFETY SHOES.

Work Hygienic Practices:NITROGEN IS NONCORROSIVE-MAY BE USED W/ANY COMMON STRUCTURAL MATERIAL. CYLINDERS NOT TO BE FILLED BY ANYBODY BUT PRODUCERS.

Supplemental Safety and Health

**CONTNR IS SECURED W/VALVE OUTLET PIPED TO USE POINT. DO NOT DRAG,SLIDE,ROLL CYLINDERS. USE PROPER HAND TRUCK FOR CYLINDER MOVEMENT. USE PRESSURE REDUCING REGULATOR FOR CONNECTING CYLINDER TO LOWER PRESSURE (3,000 PSIG) PIPING/SYSTEMS. DO NOT HEAT CYLINDER TO INCREASE DISCHARGE RATE. USE CHECK VALVE/TRAP IN DISCHARGE LINE.

Chemical Properties

Boiling Pt:B.P. Text:-320F,-196C

Melt/Freeze Pt:M.P/F.P Text:-346F,-210C

Vapor Pres:> -232.6F

Spec Gravity:0.07 @ 70F

Solubility in Water:VERY SLIGHT SOLUBLE

Appearance and Odor:COLORLESS, ODORLESS GAS

Stability

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:NONE

Disposal

Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF RESIDUAL/UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH

ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO AIRCO FOR PROPER DISPOSAL. EMERGENCY-CONTACT AIRCO/CHEMTREC.

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