

LIQUID NITROGEN

MSDS Number

BHDGZ

National Stock Number

6830-00-285-4769

Product Name

LIQUID NITROGEN

Manufacturer

SUNOX INCORPORATED

Product Identification

Product ID: LIQUID NITROGEN

MSDS Date: 04/08/1986

FSC: 6830

NIIN: 00-285-4769

MSDS Number: BHDGZ

Responsible Party

SUNOX INCORPORATED

4236 STATESVILLE ROAD

CHARLOTTE , NC 28233

US

Emergency Phone: 803-324-4180

Info Phone: 704-596-6262

Cage: SUNOX

Contractor

SUNOX INCORPORATED

33871

CHARLOTTE, NC 28233

US

704-596-6262

Cage: SUNOX

Ingredients

NITROGEN

CAS: 7727-37-9

RTECS: QW9700000

ACGIH TLV: ASPHYXIAN; 9192

Hazards

Routes of Entry: Inhalation: YES Skin: YES Ingestion: YES

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

Health Hazards Acute and Chronic: EFFECTS OF EXPOSURE TO HIGH CONCENTRATIONS MAY INCLUDE ANY, ALL, OR NONE OF THE FOLLOWING: LOSS OF BALANCE/DIZZINESS; TIGHTNESS OF FRONTAL AREA OF FOREHEAD; TINGLING OF TONGUE, FINGERTIPS, OR TOES; WEAKENED SPEECH; RAPID REDUCTION IN ABILITY TO PERFORM; REDUCED CONSCIOUSNESS; LOSS OF TACTILE SENSATION; HEIGHTENED MENTAL ACTIVITY

Explanation of Carcinogenicity: NITROGEN IS NON TOXIC BUT LIBERATION OF LARGE AMOUNTS IN A CONFINED AREA COULD DISPLACE OXYGEN IN AIR NECESSARY TO SUPPORT LIFE

Effects of Overexposure:FROSTBITE EFFECTS ARE A CHANGE IN COLOR OF THE SKIN TO GRAY OR WHITE POSSIBLY FOLLOWED BY BLISTERING. CONTACT W/CRYOGENIC LIQ OR COLD PIPING CONTAINING THE LIQUID CAN CAUSE TISSUE FREEZING OR FRST BITE ON DERMAL CONTACT OR SPLASHED INTOEYES. IT SHOULD BE RECOGNIZED THAT POSSIBLY NONE OF THE SYMPTOM MAY OCCUR AY OCC

First Aid

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO NITROGEN. RESCUE PERSONNEL SHOULD BE EQUIPPED W/SCBA. INHALATION: QUICK REMOVAL FROM THE CONTAMINATED IS MOST IMPORTANT. UNCONSCI OUS PERSONS SHOULD BE GIVEN MOUTH TOMOUTH AREA RESUSCITATION & SUPPLEMENTAL OXYGEN. FOR DERMAL CONTACT OR FROSTBITE,FLUSH AFFECTED AREA W/LUKEWARM WATER. DO NOT USE HOT WATER.

Fire Fighting

Flash Point:NA
Lower Limits:NA
Upper Limits:NA
Extinguishing Media:NON FLAMMABLE INERT
Fire Fighting Procedures:NA
Unusual Fire/Explosion Hazard:NA

Accidental Release

Spill Release Procedures:DONOT ATTEMPT TO REPAIR,ADJUST,OR IN ANY OTHER WAYMODIFY THE OPERATION OF THESE VESSELS. IF THERE ISA MALFUNCTION OR OTHER TYPE OF OPERATIONAL PROBLEMW/VESSEL, CONTACT THE CLOSEST SUNOX LOCATION IMMEDIATELY

Handling

Handling and Storage Precautions:DO NOT STORE CYLINDERS IN POORLY VENTL AREAS. CYLINDERS MUST ALWAYS BE KEPT IN UPRIGHT POSITION.SPECIALIZED HANDTRUCKS ARE NEEDED FOR MOVEMENT.
Other Precautions:NITROGEN GAS CAN CAUSE SUFFOCATION W/O WARNING. LIQUEFIED GAS CYLINDERS SHOULD NOT BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF PRODUCTS. ALSO SEE CGA SAFETY BULLETIN SB-2 & CGA PAMPHLETS P-9;P-12; AND P-14.

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 CONCENTRATIONSSO AS TO REDUCE THE OXYGEN LEVEL IN AIR < 18 MOLAR PERCENT.
Protective Gloves:LOOSE FITTING, INSULATED
Eye Protection:SAFETY GOGGLES/GLASSES W/FACE SHIELD
Other Protective Equipment:SAFETY SHOES
Supplemental Safety and Health
NK

Chemical Properties

Boiling Pt:B.P. Text:-320.445F
Vapor Pres:-232.51F
Vapor Density:.07245
Solubility in Water:.01557
Appearance and Odor:CLEAR,COLORLESS,ODORLESS LIQUID

Stability

Stability Indicator/Materials to Avoid:YES
NONE
Stability Condition to Avoid:NONE
Hazardous Decomposition Products:NONE

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