

MG INDUSTRIES -- NITROGEN -- 3040-01-126-8719

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

Product ID:NITROGEN

MSDS Date:11/25/1985

FSC:3040

NIIN:01-126-8719

Status Code:A

MSDS Number: CJMBY

=== Responsible Party ===

Company Name:MG INDUSTRIES

Address:2460 BOULEVARD OF THE GENERALS

Box:945

City:VALLEY FORGE

State:PA

ZIP:19482

Country:US

Info Phone Num:800-345-6361 / 800-362-0534(PA)

Emergency Phone Num:800

-345-6361 /800-362-0534 (PA)

Resp. Party Other MSDS Num.:#415

CAGE:TO275

=== Contractor Identification ===

Company Name:MG INDUSTRIES

Address:2460 BOULEVARD OF THE GENERALS

Box:945

City:VALLEY FORGE

State:PA

ZIP:19482

Country:US

Phone:800-345-6361 / 800-362-0534(PA)

CAGE:TO275

Company Name:PACIFIC SCIENTIFIC CO HTL/KIN-TECH DIVISION

Address:1800 HIGHLAND AVE

Box:City:DUARTE

State:CA

ZIP:91010

Country:US

Phone:818-359-9317/602-796-1100

CAGE:05167

Company Name:PACIFIC SCIENTIFIC INC. HTL ENERGY SY

STEMS DIV.
Address:7073 W. WILLIS RD.,
Box:City:CHANDLER
State:AZ
ZIP:85226
Country:US
Phone:602-961-1100
CAGE:TO276

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Composition/Information on Ingredients
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Ingred Name:NITROGEN
CAS:7727-37-9
RTECS #:QW9700000
Other REC Limits:NONE RECOMMENDED

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Hazards Identification
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Health Hazards Acute and Chronic:TARGET ORGANS: N/P. ACUTE - NITROGEN IS DEFINED AS A SIMPLE ASPHYXIAN. OXYGEN LEVELS SHOULD BE MAINTAINED AT GR EATER THAN 18 MOLAR PERCENT AT NORMAL ATMOSPHERIC PRESSURE WHICH IS EQUIVALENT TO A PAR TIAL PRESSURE OF 135 MMHG (ACGIH, 1985-86). NITROGEN IS NONTOXIC BUT THE LIBERATION OF A LARGE AMOUNT IN A CONFINED AREA COULD DISPLACE THE AMOUNT OF OXYGEN IN AIR NECESSARY TO SUPPORT LIFE.

Effects of Overexposure: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 DIZZINES

S,
TIGHTNESS IN THE FRONTA L AREA OF THE FOREHEAD, TINGLING OF THETONGUE, FINGERTIPS OR TOES, WEAKENED SPEECH LEADING TO THE INABILITY TO UTTER SOUNDS, RAPID REDUCTION IN THE ABILITY TO PERFORM MOVEMENTS, REDUCED CONSCIOUSN ESS OF THE SURROUNDINGS, LOSS OF TACTILE SENSATIONS, HEIGHTENED MENTAL ACTIVITY. THERE ARE NO DEFINITE WARNING SYMPTOMS.

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First Aid Measures
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First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL

CASES OF

OVEREXPOSURE TO NITROGEN. 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 CONTAMINATED AREA IS MOST IMPORTANT. UNCONSCIOUS PERSONS SHOULD BE MOVED TO AN UNCONTAMINATED AREA, GIVEN MOUTH-TO-MOUTH RESUSCITATION AND SUPPLEMENTAL OXYGEN. FURTHER TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE.

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Fire Fighting Measures =====

Extinguishing Media:NONFLAMMABLE, INERT GAS

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Accidental Release Measures =====

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CONTACT YOUR CLOSEST SUPPLIER LOCATION OR CALL THE EMERGENCY TELEPHONE NUMBER LISTED FOR THE MANUFACTURER OR SUPPLIER.

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Handling and Storage =====
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Handling and Storage Precautions:STORE IN COOL, DRY, WELL-VENTILATED AREA, AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXISTS. CYLINDERS SHOULD BE STORED UPRIGHT AND FIRMLY SECURED. STORAGE AREA TEMPERATURES SHOULD NOT EXCEED 13 OF (54C). SEPARATE FULL FROM EMPTY CYLINDERS. USE A FIRST IN FIRST-OUT INVENTORY SYSTEM.

Other Precautions:USE ONLY IN WELLVENTILATED AREAS. DO NOT DRAG, SLIDE, OR ROLL CYLINDERS. USE A SUITABLE HAND TRUCK FOR CYLINDER MOVEMENT. USE A PRESSURE REDUCING REGULATOR WHEN CONNECTING TO LOWER PRESSURE SYSTEM. DO NOT HEAT CYLINDER TO INCREASE DISCHARGERATE. AVOID BREATHING GAS. USE A TRAP IN DISCHARGE LINE TO PREVENT BACK FLOW.

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Exposure Controls/Personal Protection =====

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 CONCENTRATION

S 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:OBSERVE ALL SAFETY PRECAUTIONS, WARNINGS, AND INSTRUCTIONS AFFIXED TO CYLINDER/VALVE ASSEMBLY AND INSTRUCTIONS FOR APPARATUS USING THIS ASSEMBLY.

Supplemental Safety and Health
HELLFIRE BOTTLE P/N: 13008160.

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===== Physical/Chemical Properties =====
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HCC:G3

Boiling Pt:=-195.8C, -320.5F

Melt/Freeze Pt:=-209.9C, -345.8F

Vapor Pres:@70FABOVE TEMP -232.6F

Vapor Density:0.97

Spec Gravity:0.808

Solubility in Water:VERY SLIGHTLY

Appearance and Odor:COLORLESS ODORLESS GAS

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===== Stability and Reactivity Data =====
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Stability Indicator/Materials to Avoid:YES

NONE

Hazardous Decomposition Products:NONE

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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===== Disposal Considerations =====
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Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER. CONTACT YOUR CLOSEST SUPPLIER.

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===== MSDS Transport Information =====
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Transport Information:CERTIFICATE OF EQUIVALENCY CERTIFICATION CONTROL NUMBER AY-96-183, REV 2: THIS IS TO CERTIFY THAT THE HAZARDOUS MATERIALS DE

SCRIBED HEREIN ARE PACKAGED IN CONTAINERS OF EQUAL OR
GREATER STRENGTH AND EFFICIENCY THAN REQUIRED BY THE DEPARTMENT OF
TRANSPORTATION HAZARDOUS MATERIALS REGULATIONS IN ACCORDANCE WITH
TITLE 49, CFR 173.7 (A). NITROGEN, COMPRESSED, 2.2, UN1066; LABEL:
NON-FLAMMABLE GAS. MODE OF TRANSPORTATION AUTHORIZED: MOTOR
FREIGHT, AIR. P/N 13008161- RESEVOIR ASSEMBLY P/N 13008160 -
PNEUMATIC ACCUMULATOR ASSEMBLY. ISSUED BY US ARMY, REDSTONE
ARSENAL, ALABAMA.

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===== Other Information =====

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