

PACIFIC SCIENTIFIC CO HTL/KIN-TECH DIVISION -- NITROGEN -- 3040-01-126-8719

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Product Identification  
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Product ID:NITROGEN

MSDS Date:11/25/1985

FSC:3040

NIIN:01-126-8719

Status Code:A

MSDS Number: CKCPY

=== Responsible Party ===

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

Address:1800 HIGHLAND AVE

City:DUARTE

State:CA

ZIP:91010

Country:US

Info Phone Num:818-359-9317/602-796-1

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

Resp. Party Other MSDS Num.:#415

CAGE:05167

=== Contractor Identification ===

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 SYSTEMS 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  
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/Information on Ingredients =====

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

Health Hazards Acute and Chronic:TARGET ORGANS: N/P. ACUTE - NITROGEN IS DEFINED AS A SIMPLE ASPHYXIANT. OXYGEN LEVELS SHOULD BE MAINTAINED AT GREATER THAN 18 MOLAR PERCENT AT NORMAL ATMOSPHERIC PRESSURE WHICH IS EQUIVALENT TO A PARTIAL PRESSURE OF 135 MMHG (ACGIH, 1985-86). NIT

ROGEN 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 DIZZINESS, TIGHTNESS IN THE FRONTAL AREA OF THE FOREHEAD, TINGLING OF THE TONGUE, FINGERTIPS OR TOES, WEAKENED SPEECH LEADING TO THE

INABILITY TO UTTER SOUNDS, RAPID REDUCTION IN THE ABILITY TO PERFORM MOVEMENTS, REDUCED CONSCIOUSNESS OF THE SURROUNDINGS, LOSS OF TACTILE SENSATIONS, HEIGHTENED MENTAL ACTIVITY. THERE ARE NO DEFINITE WARNING SYMPTOMS.

===== First Aid Measures =====

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.

===== Fire Fighting Measures =====

Extinguishing Media:NONFLAMMABLE, INERT GAS

===== Accidental Release Measures =====

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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 =====

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 WELL VENTILATED 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 DISCHARGE RATE. AVOID BR EATING 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 CONCENTRATIONS 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. THIS WAS COPIED FROM MSDS SERIAL NUMBER: CJMBY.

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Physical/Chemical Properties =====

HCC:G3

Boiling Pt:=-195.8C, -320.5F

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

Vapor Pres:@70FAB

OVE TEMP -232.6F  
Vapor Density:0.97  
Spec Gravity:0.808  
Solubility in Water:VERY SLIGHTLY  
Appearance and Odor:COLORLESS ODORLESS GAS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES  
NONE  
Hazardous Decomposition Products:NONE  
Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Disposal Considerations =====

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.

===== MSDS Transport Information =====

Transport Information:CERTIFICATE OF EQUIVALENCY CERTIFICATION CONTROL  
NUMBER AY-96-183, REV 2: THIS IS TO CERTIFY THAT THE HAZARDOUS  
MATERIALS DESCRIBED HEREIN ARE PACKAGED IN CONTAINERS OF EQUAL OR  
GREATER STRENGTH AND EFFICIENCY T  
HAN 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.

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

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