

MG INDUSTRIES -- NITROGEN -- 4210-01-250-6424

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

Product ID:NITROGEN

MSDS Date:01/24/1996

FSC:4210

NIIN:01-250-6424

MSDS Number: BVZKR

=== 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 800-36

2-0534(PA)

Preparer's Name:MSDS # 415

CAGE:08772

=== Contractor Identification ===

Company Name:KEYSTONE FIRE PREVENTION

Box:UNKNOW

CAGE:1W693

Company Name:KIDDE FENWAL INC

Address:400 MAIN ST

Box:City:ASHLAND

State:MA

ZIP:01721-2150

Country:US

Phone:508-881-2000

CAGE:0KDP7

Company Name:KIDDE INC WALTER KIDDE DIVISION

Address:INDUSTRIAL/MARINE FIRE PROTECTION SYSTEM

Box:City:WAKE FOREST

State:NC

Country:US

CAGE:62142

Company Name:MG INDUSTRIES

Address:3 GREAT VALLEY PKY

Box:City:MALVERN

State:PA

ZIP:19355-1424
Country:US
Phone:610-695-7400 / 610-695-7449
CAGE:08772

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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
ACGIH TLV:ASPHYXIAN; 9394

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Hazards Identification
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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 A SIMPLE ASPHYXIAN

NITROGEN UNDER HIGH PRESSURE CAN PRODUCE NARCOSIS.LIQUID NITROGEN CAN CAUSE FREEZE BURNS.

Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.

Effects of Overexposure:INHALATION:TINGLING OF THE TONGUE,FINGERTIPS AND TOES,WEAKENED SPEECH,INABILITY TO UTTER SOUNDS,RAPID REDUCTION IN ABILITY TO PERFORM MOVEMENTS,REDUCED CONSCIOUSNESS OF SURROUNDINGS,LOSS OF TACTILE SENSATIONS,HEIGHTENED MENTAL ACTIVITY.

Medical Cond Aggravated by Exposure:UNLIKELY TO AGGRIVATE EXISTING MEDICAL CONDITIONS.

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First Aid Measures
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First Aid:INHALATION: REMOVE SUBJECT TO FRESH AIR. RESCUE WORKERS, WEAR SCBA. GIVE OXYGEN/CPR AS NEEDED. NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE. TREATMENT SHOULD BE DIRECTED AT THE CONTROL OF SYMPTOMS AND THE CLINICAL CONDITION.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Lower Limits:NOT GIVEN

Upper Limits:NOT GIVEN

Extinguishing Media:NON-FLAMMABLE. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:EVACUATE PERSONNEL. IMMEDIATELY DELUGE CONTAINERS WITH WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL, THEN MOVE CONTAINERS AWAY FROM FIRE AREA IF WITHOUT RISK.

Unusual Fire/Explosion Hazard:CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. MOST CONTAINERS ARE DESIGNED TO VENT CONTENTS WHEN THEY ARE EXPOSED TO ELEVATED TEMPERATURES.

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

Spill Release Procedures:EVACUATE PERSONNEL. USE SELF-CONTAINED BREATHING APPARATUS WHERE NEEDED. SHUT OFF LEAK IF WITHOUT RISK. VENTILATE OR MOVE LEAKING CONTAINER TO WELL-VENTILATED AREA. TEST AREA, ESPECIALLY CONFINED AREAS, FOR OXYGEN CONTENT PRIOR TO PERMITTING REENTRY.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

===== Handling and Storage =====

Handling

and Storage Precautions:USE ONLY IN WELL VENTILATED AREAS.

CONTAINS NITROGEN AT EXTREMELY HIGH PRESSURE. CLOSE VALVE WHEN NOT IN USE AND WHEN EMPTY.

Other Precautions:AVOID DRAGGING,ROLLING OR SLIDING CYLINDERS.USE HAND TRUCK.STORE OUTSIDE.KEEP AWAY FROM HEAT,FLAMES AND COMBUSTIBLE MATERIALS.KEEP AWAY FROM HEAVY TRAFFIC AREAS.AVOID EXPOSURE TO SALT OR OTHER CORROSIVE CHEMICALS.REPLACE CAP WHEN NOT IN USE

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE SCBA IN OXYGEN-DEFICIENT ATMOSPHERES. CAUTION! RESPIRATORS WILL NOT FUNCTION. USE MAY RESULT IN ASPHYXIATION.

Ventilation:MECHANICAL (GENERAL) VENTILATION AND/OR LOCAL EXHAUST AS NECESSARY.TEST ATMOSPHERE;MUST HAVE >18 MOLAR PERCENT OXYGEN.

Protective Gloves:LEATHER WORK GLOVES.

Eye Protection:SAFETY GLASSES.

Other Protective Equipment:OXYGEN MONITORING EQUIPMENT TO TEST FOR OXYGEN DEFICIENT ATMOSPHERES. SAFETY SHOES FOR CYLINDER HANDLING.

Work Hygiene

c Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.

Supplemental Safety and Health

HIGH PRESSURE GAS. USE PIPING AND EQUIPMENT DESIGNED TO WITHSTAND PRESSURES TO BE ENCOUNTERED. MIXTURES: WHEN TWO OR MORE GASES ARE MIXED, THEIR PROPERTIES MAY COMBINE TO CREATE ADDITIONAL, UNEXPECTED HAZARDS. OBTAIN AND EVALUATE THE SAFETY INFORMATION FOR EACH COMPONENT BEFORE YOU PRODUCE THE MIXTURE.

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Physical/
Chemical Properties =====

HCC:G3

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

Melt/Freeze Pt:M.P/F.P Text:-345F,-209C

Decomp Temp:Decomp Text:NOT GIVEN

Vapor Density:0.967

Spec Gravity:0.97

Evaporation Rate & Reference:NOT GIVEN

Solubility in Water:VERY SLIGHT

Appearance and Odor:COLORLESS, ODORLESS GAS.

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Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

HMIS SUGGESTS UNDER CERTAIN CONDITIONS NITROGEN CAN REACT VIOLENTLY
WI

TH LITHIUM, NEODYMIUM, TITANIUM, OZONE.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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Disposal Considerations =====

Waste Disposal Methods:VENT NITROGEN GAS SLOWLY TO A WELL VENTILATED OUTDOOR LOCATION REMOTE FROM WORK AREAS. DISCARD ANY PRODUCT, RESIDUE, DISPOSABLE CONTAINER IN FULL COMPLIANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS.

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