

MG INDUSTRIES -- MGI68220 -- 6830-01-360-1866

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

Product ID:MGI68220
MSDS Date:06/30/1994
FSC:6830
NIIN:01-360-1866
Status Code:A
MSDS Number: CJLTX
=== Responsible Party ===
Company Name:MG INDUSTRIES
Address:3 GREAT VALLEY PKY
City:MALVERN
State:PA
ZIP:19355-1424
Country:US
Info Phone Num:610-695-7449
Emergency Phone Num:610-695-7400
Chemtrec Ind/Phone:(800)424
-9300
CAGE:08772
=== Contractor Identification ===
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
Company Name:MG INDUSTRIES
Address:8025 DORSEY RUN RD
Box:City:JESSUP
State:MD
ZIP:20794-9326
Country:US
Phone:301-796-8845
Contract Num:SP0450-99-M-JB74
CAGE:8K810

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===== Composition/Information on Ingredients =====

Ingred Name:HYDROGEN
CAS:1333-74-0
RTECS #:MW8900000
< Wt:4

Ingred Name: AIR
Minimum % Wt: 0.
Maximum % Wt: 99.9

Ingred Name: ARGON
CAS: 7440-37-1
RTECS #: CF2300000
Minimum % Wt: 0.
Maximum % Wt: 99.9

Ingred Name: HELIUM
CAS: 7440-59-7
RTECS #: MH6520000
Minimum % Wt: 0.
Maximum % Wt: 99.9

Ingred Name: NITROGEN
CAS: 7727-37-9
RTECS #: QW9700000
Minimum % Wt: 0.
Maximum % Wt: 99.9

Ingred Name: NEON
CAS: 7440-01-9
RTECS #: QP4550000
Minimum % Wt: 0.
Maximum % Wt: 99.9

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

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

Health Hazards Acute and Chronic: TARGET EFFECTS: SIMPLE ASPHYXIANT.
AIR; ACUTE - INHALATION OF COMPRESSED AIR MAY CAUSE DECOMPRESSION
SICKNESS. SYMPTOMS MAY INCLUDE: HEADACHE, VERTIGO, FATIGUE,
VOMITING, BURNING SENSATION IN CHEST, PULMONARY EDEMA, VISUAL
DEFECTS, DEAFNESS, CONVULSIONS, UNCONSCIOUSNESS AND DEATH. SIMPLE
ASPHYXIANTS: UNCONSCIOUSNESS MAY BE IMMEDIATE. MAY CAUSE RAPID
RESPIRATION AND PULSE, AIR HUNGER, DIZZINESS, REDUCED AWARENESS,

TIGHTNESS IN HEAD, INCOORDINATION, FAULTY JUDGEMENT, COLLAPSE, UNCONSCIOUSNESS, CONVULSIONS, DEEP COMA AND DEATH. CHRONIC - NO DATA AVAILABLE. INGESTION IS UNLIKELY. CONTACT WITH GAS MAY CAUSE FROSTBITE.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:AIR: HEADACHE, VERTIGO, FATIGUE, VOMITING, DYSPNEA, BURNING SENSATION IN CHEST, COUGH, CUTANEOUS IRRITATION, ITCHING, VISUAL DEFECTS, DEAFNESS, PAIN IN MUSCLE, TINGLING, NUMNESS, WEAKNESS OF PARALYSIS OF LIMPS, ANGINA, HYPOTENSION, CONVULSIONS, UNCONSCIOUSNESS, COMA AND DEATH, JOINT COLLAPSE. SIMPLE ASPHYXIANTS: RAPID RESPIRATION AND PULSE, AIR HUNGER, DIZZINESS, REDUCED AWARENESS, TIGHTNESS IN HE AD, INCOORDINATION, FAULTY JUDGEMENT, COLLAPSE, UNCONSCIOUSNESS, CONVULSIONS, DEEP COMA AND DEATH. EYE AND SKIN FROSTBITE MAY OCCUR.

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

First Aid:REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. PERFORM ARTIFICIAL RESPIRATION IF NECESSARY. MAINTAIN AIRWAY, BLOOD PRESSURE AND RESPIRATION. KEEP WARM AT REST. TREAT SYMPTOMATICALLY AND SUPPORTIV ELY. GET MEDICAL ATTENTION IMMEDIATELY. QUALIFIED MEDICAL PERSONNEL SHOULD ADMINISTER OXYGEN. IT IS UNLIKELY THAT EMERGENCY TREATMENT WILL BE REQUIRED FOR EYE OR SKIN CONTACT. IF NEEDED, WARM AFFECTED AREA IN SKIN WITH WARM WATER (107F). GET MEDICAL ATTENTION IMMEDIATELY. IF CONTACT WITH LIQUEFIED OR COMPRESSED GAS OCCURS, WASH EYE WITH LARGE AMOUNT OF WATER FOR AT LEAST 15-20 MINUTES. GET MEDIC AL ATTENTION IMMEDIATELY.

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

Extinguishing Media:DRY CHEMICAL OR CARBON DIOXIDE. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGUALR FOAM (1993 EMERGENCY RESPONSE GUIDEBOOK, RSPA P 5800.6).
Fire Fighting Procedures:MOVE CONTAINER FROM FIRE IF YOU CAN DO IT WITHOUT RISK. COOL CYLINDERS WITH FLOODING AMOUNTS OF WATER FROM AS FAR A DISTANCE AS POSSIBLE. D O NOT USE WATER DIRECTLY ON MATERIAL, USE WATER SPRAY TO ABSO RB VAPORS. AVOID BREATHING VAPORS, KEEP UPWIND.
Unusual Fire/Explosion Hazard:CONTAINER MAY EXPLODE IN HEAT OF FIRE. CONSIDER EVACUATION OF DOWNWIND AREA IF MATERIAL IS LEAKING. WITHDRAW IMMEDIATELY IN CASE OF RISING SOUND FROM VENTING SAFETY DEVICE OR ANY DISCOLORATION OF TANK DUE TO FIRE. MAY LEAVE A FLAMMABLE RESIDUE

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

Handling and Storage

Precautions:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS WHEN STORING THIS SUBSTANCE.. STORE IN ACCORDANCE WITH 29 CFR 1910.101. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Other Precautions:DO NOT PERMIT PHYSICAL DAMAGE OR OVERHEATING OF CONTAINERS. CONTAINERS ARE UNDER PRESSURE; CONTAIENRS MAY VIOLENTLY RUPTURE AND TRAVEL A CONSIDERABLE DISTANCE.

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

Respiratory Protection:NIOSH-MSHA APPROVED SUPPLIED-AIR RESPIRATOR IN

PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE OR SELF-CONTAINED BREATHING APPARATUS (SCBA) BASED ON CONTAMINATION LEVELS IN WORK PLACE. FOR FIREFIGHTIN G AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS USE NIOSH-MSHA APPROVED SUPPLIED-AIR RESPIRATOR, FULL FACEPIECE, POSITIVE PRESSURE MODE AND SCBA.

Ventilation:PROVIDE GENERAL DILUTION VENTILATION

Protective Gloves:WEAR FULL PROTECTIVE, COLD INSULATING GLOVES

Eye Protection:SPLASH-PROOF SAFETY GOGGLES AN D FACESHIELD IF CONTACT WITH LIQUID IS POSSIBLE.

Other Protective Equipment:EYE BATH, WASHING FACILITY, EMERGENCY SHOWER, AND APPROPRIATE PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT SKIN FROM FREEZING IF CONTACT WITH LIQUID IS POSSIBLE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health
NONE

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

Appearance and Odor:GAS

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

Stability Indicator/Materials to Avoid:YES

ALKALINE METALS, CA CARBONATE+MG, CHLORINE DIOXIDE, COPPER OXIDE, NITROGEN OXIDE, NITROSYL CHLORIDE, OXYGEN, OZONE, CHARCOAL, COMBUSTIBLE MATERIALS, ETHER, HYDROCARBONS, ORGANIC MATERIALS, STRONG REDUCING AGENTS, LITHIUM, T

Stability Condition to Avoid:STABLE UNDER NORMAL TEMPERATURES AND PRESSURES.

Hazardous Decomposit

ion Products:TOXIC AND/OR HAZARDOUS GASES.

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

Waste Disposal Methods:OBSERVE ALL FEDERAL, STATE AND LOCAL REGULATIONS
WHEN DISPOSING OF THIS SUBSTANCE..

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