

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

===== 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

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

Ingred Name:HYDROGEN  
CAS:1333-74-0  
RTECS #:MW8900000  
&lt; Wt:4.

Ingred Name:AIR  
Minumum % Wt:0.  
Maxumum % Wt:99.9

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

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

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

Ingred Name:NEON  
CAS:7440-01-9  
RTECS #:QP4550000  
Minumum % Wt:0.  
Maxumum % 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, P ULMONARY EDEMA, VISUAL  
DEFECTS, DEAFNESS, CONVULSIONS, UNCONSCIOUSNESS AND DEATH. SIMPLE  
ASPHYXIANTS: UNCONSCIOUSNESS MAY BE IMMEDIATE. MAY CAUSE RAPID  
RESPIRATION AND PULSE, AIR HUNGER, DIZZINESS, RE DUCED AWARENESS,  
TIG

HTNESS 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.

===== 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 SUPPORTIVELY. 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 MEDICAL ATTENTION IMMEDIATELY.

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

Extinguishing Media:DRY CHEMICAL OR CARBON DIOXIDE. FOR LARGER FIRES, USE WATER SPRAY, FOG OR REGULAR 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. DO NOT USE WATER DIRECTLY ON MATERIAL, USE WATER SPRAY TO ABSORB 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

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

Handling and Storage Pre

cautions: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; CONTAINERS MAY VIOLENTLY RUPTURE AND TRAVEL A CONSIDERABLE DISTANCE.

===== 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 FIREFIGHTING 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 AND FACE SHIELD 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

===== Physical/Chemical Properties =====

HCC:G3  
Appearance and Odor:GAS

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

Stability Indicator/Materials to Avoid:YES  
ALKALINE METALS, CALCIUM CARBONATE+MAGNESIUM, 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 Decomposition

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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