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)424-93 00 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

Ingred Name:HYDROGEN CAS:1333-74-0 RTECS #:MW8900000 &It; 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

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, AN

GINA, 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:REMOVE FROM EXPOSURE AREA TO FRESH AIR IMMEDIATELY. PERFORM ARTIFICIAL RES

PIRATION 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 LAR

GE AMOUNT OF WATER FOR AT

LEAST 15-20 MINUTES. GET MEDIC AL ATTENTION IMMEDIATELY.

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. DO N

OT 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

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; CONTAIENRS MAY VIOLENTLY RUPTURE AND TRAVEL A CONSIDERABLE DISTANCE.

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

Respiratory Protection:NIOSH-MSHA APPROVED SUPPLIED-AIR RESPIRATO R 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 AND F ACESHIELD 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 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 Decomposition

Products:TOXIC AND/OR HAZARDOUS GASES.

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

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