Product ID:NITROGEN, MGI 16625 MSDS Date:06/30/1994 FSC:6830 NIIN:01-391-5033 Status Code:A MSDS Number: CJNSV === Responsible Party === Company Name:MG INDUSTRIES Address:3 GREAT VALLEY PKY City:MALVERN State:PA ZIP:19355-1424 Country:US Info Phone Num:215-695-7400 / 610-695-7449 **Emergency Phone Num:800-4** 24-9300 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-JC23 CAGE:8K810

Ingred Name:NITROGEN GAS CA

S:7727-37-9 RTECS #:QW9700000 = Wt:100.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Health Hazards Acute and Chronic:TARGET EFFECTS: SIMPLE ASPHYXIANT. INHALATION-SIMPLE ASPHYXIANT. IN SUDDEN ACUTE ASPHYXIA, UNCONSCIOUSNESS MAY BE IMMEDIATE. SKIN-THE LIQUID MAY CAUSE FROSTBITE. IN MORE SEVERE CASES THE SKIN MAY BECO ME HARD & WHITE & DEVELOP BLISTERS. EYE-MAY CAUSE IRRITATION IF SPRAYED INTO EYES. THE LIQUID MAY CAUSE FROSTBITE. INGESTION-IF LIQUID IS SWALLOWED, FROSTBITE DAMAGE OF THE LIPS, MOUTH & MUCOUS MEMBRA NES MAY OCCUR. Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHÁLATION-RAPID RESPIRATION & PULSE, AIR, HUNGER, DIZZINESS, REDUCED AWARENESS,TIGHTNESS IN THE HEAD, TINGLING SENSATIONS, INCOORDINATION, FAULTY JUDGEMENT, EMOTIONAL INSTABILITY, & RAPID FATIGUE. NA USEA, VOMITING, COLLAPSE, UNCONSCIOUSNESS, CONVULSION, DEEP COMMA & DEATH ARE POSS IBLE.

SKIN-REDNESS, TINGLING, AND PAIN OR NUMBNESS. EYE-REDNESS, PAIN & BLURRED VISION.

First Aid:INHALATION-REMOVE FROM EXPOSURE TO FRESH AIR, IMMEDIATELY. PERFORM ARTIFICIAL RESPIRATION IF NEEDED. MAINTAIN AIRWAY, BLOOD PRESSURE & RESPIRATION. KEEP WARM/AT REST. GET MEDICAL AID IMMEDIATELY. SKIN -GET MEDICAL AID. IF FROSTBITE, FREEZING, CRYOGENIC BURNS OCCUR. WARM AFFECTED AREA IN WARM WATER (107F). GENTLY WRAP PARTS IN BLANKETS. ENCOURAGE EXERCISING AFFECTED PART WHILE BEING WARMED. GET MED ICAL AID. EYE-WASH EYES IMMEDIATELY WITH WATER, LIFTING EYE LIDS, UNTIL NO CHEMICAL REMAINS. GET MEDICAL AID. INGESTION-INGESTION OF GAS IS UNLIKELY THAT EMERGENCY TREATMENT IS REQUIRED. TREAT SYMPTOM ATICALLY/SUPPORTIVELY. GET MEDICAL AID.

Extinguishing Media:DRY CHEMICAL OR CARBON DIOXIDE. Fire Fighting Pro

- cedures:MOVE CONTAINER FM FIRE IF WITHOUT RISK, APPLY COOLING WATER TO SIDES OF CONTAINERS EXPOSED TO FLAMES UNTIL WELLAFTER FIRE IS OUT. STAY AWAY FROM ENDS OF TANKS. WITHDRAW IMMEDIATELY IF RISING SOUND FRO M VENTING SAFETY DEVICE OR DISCOLORATION OF TANK DUE TO FIRE. MATLS IF SPILLED, MAY EVAPORATE LEAVING FLAMMABLE RESIDUE.
- Unusual Fire/Explosion Hazard:ISOLATE FOR 1/2 MILE IN ALL DIRECTIONS IF TANK, FAIL CAR OR TANK TRUCK IS INVOLVED IN FIRE (1993 EMERGENCY RESPO
- NSE GUIDEBOOK, RSPA P 5800.6. GUIDE PAGE 12). NEGLIGIBLE FIRE HAZARD WHEN EXPOSED TO HEA T OR FLAME. CONTAINER MAY EXPLODE IN HEAT OF FIRE.

Handling and Storage Precautions:STORE IN ACCORDANCE WITH 29 CFR 1910.101. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.
Other Precautions:STORE IN ACCORDANCE WITH 29 CFR 1910.101. STORE AWAY FROM INCOMPATIBLE SUBSTANCES.

Respiratory Protection: ANY SUPPLIED-AIR RESPIRATOR OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE. ANY SELF-CONTAINED BREATHING APPARATUS. SPECIFIC RESPIRATOR SELECTED MUST BE BASED ON CONTAMINATION LEVELS FOUN D IN WORK PLACE, BASED ON SPECIFIC OPERATION, NOT EXCEED WORKING LIMITS OF RESPIRATOR & BE JOINTLY APPROVED BY (NIOSH-MSHA).

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION SYSTEM. Protective Gloves:WEAR FULL PROTECTIVE, COLD INSULATING GLOVES.

Eye Protection:FOR THE GAS FORM EYE PROTECTION IS NOT REQUIRED, BUT RECOMMENDED.

Other Protective Equipment:WHERE THERE IS ANY POSSIBILITY OF CONTACT WITH LIQUID FORM, EMPLOYEE MUST WEAR SPLASH-PROOF SAFETY GOGGLES & A FACESHIELD TO PREVENT CONTACT W/SUBSTANCE. CONTACT LENSES SHOULD NOT BE WORN.

Work Hygienic Practices: EMERGENCY WASH FACILITIES; WHERE POSSIBILITY AN EMPLOYEE'S EYES &/OR SKIN MAY BE EXPOSED TO LIQUID FORM OF SUBSTANCE, THE EMPLOYER SHOULD PROVIDE EYE WASH

FOUNTAIN & QUICK DRENCH SHOWER WITHIN WORK AREA Supplemental Safety and Health IF CONTACT WITH LIQUID FORM IS POSSIBLE, EMPLOYEE MUST WEAR APPROPRIATE PROTECTIVE CLOTHING & EQUIPMENT TO PREVENT SKIN FROM FREEZING.

HCC:G3 Boiling Pt:=-196.1C, -321.F Melt/Freeze Pt:=-210.C, -346.F Vapor Pres:760 MMHG@-196C Vapor Density:0.967 Spec Gravity:1.2506 Viscosity:0.01787 CP@27C Solubility in Water:1.6%@2 Appearance and Odor:OD ORLESS, TASTELESS, COLORLESS, INERT GAS. Percent Volatiles by Volume:100%

Stability Indicator/Materials to Avoid:YES

LITHIUM: MAY IGNITE IN THE GAS. MAGNESIUM: VIOLENT REACITON W/LIQUID ON IGNITION. NEODYMIUM: VIGOROUS REACTION. OZONE: MIXTURES OF GASES MAY BE EXPLOSIVE. TITANIUM: WILL BURN IN NITROGEN ATMOSPHERE. Stability Condition to Avoid:STABLE UNDER NORMAL TEMPERATURES & PRESSURES. Hazardous Decomposition Pro

ducts:THERMAL DECOMPOSITION PRODUCTS MAY

INCLUDE TOXIC OXIDES OF NITROGEN.

Conditions to Avoid Polymerization: HAZARDOUS POLYMERIZATION HAS NOT BEEN REPORTED TO OCCUR UNDER NORMAL TEMPERATURES & PRESSURES.

Toxicological Information:NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY OSHA, ACGIH OR NIOSH.

Waste Disposal Methods: OBSERVE ALL FEDERAL, STATE

AND LOCAL REGULATIONS WHEN STORING OR DISPOSING OF THIS SUBSTANCE.

Transport Information:NONFLAMMABLE GAS.

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