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Product ID:LIQUID OXYGEN MSDS Date:06/19/1996 FSC:9135 NIIN:00-965-2527 **MSDS Number: CHNLB** === 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:610-695-7449 CAGE:08772 === Contractor Identifi cation === 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

Ingred Name:OXYGEN (GAS) CAS:7782-44-7 RTECS #:RS2060000 Fraction by Wt: 100%

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Haz ards Acute and Chronic: INHALATION: MAY CAUSE MUCOUS MEMBRANE **IRRITATION & PULMONARY EDEMA AFTER 24 HOURS. RESPIRATORY SYSTEM** EFFECTS MAY INCLUDE TRACHEOBRONCHITIS/PNEUMONIA/EDEMA/FIBROBLASTIC/PROLIFERATION & HYPERPLASIA OF ALVEOLAR CELLS. CARDIOVASCULAR SYSTEM EFFECTS MAY INCLUDE BRADYCARDIA/HYPOTHERMIA & PERIPHERAL VASOCONSTRICTION. (SUPP)

Explanation of Carcinogenicity:NONE

Effects of Overexposure: IRRITATION/TIGHTNESS IN THE

CHEST/DISCOMFORT/COUGHING/CONGESTION/AST

HMA-LIKE

ATTACKS/APNEA/RAPID PANTING/MOOD CHANGES/NAUSEA/DIZZINESS/SLOW MENTAL PROCESS/TINGLING OF FINGERS/MUSCULAR TWITCHING/VISUAL LOSS OF CONSCIOUSNESS/COLLAPS/REDNESS/PAIN/NUMBNESS/BLISTERS/BLURRED VISION/PHOTOPHOBIA/AMBLYOPIA/MYDRIASIS.

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE CPR IF NECESSARY. KEEP WAR & AT REST. TREAT SYMPTOMATICALLY & SUPPORTIVELY. SKIN: GENTLY WRAPPED AFFECTED PARTS IN

BLANKETS. ALLOW CIRCULATION TO RETURN NATURALLY . EYES: WASH W/LARGE AMOUNTS OF WATER. IF FROSTBITE OCCURS, USE WARM WATER. INGESTION: TREAT SYMPTOMATICALLY & SUPPORTIVELY. OBTAIN MEDICAL ATTENTION IN ALL CASES. NO SPECIFIC ANTIDOTE.

Extinguishing Media: DRY CHEMICAL/CO2. LARGE: WATER SPRAY, FOG/REGULAR FOAM.

Fire Fighting Procedures: APPLY COOLING WATER TO SIDES OF CONTAINERS UNTIL FIRE IS OUT. USE UNM

ANNED HOSE HOLDER/MONITOR NOZZLES/W/DRAW

FROM AREA & LET FIRE BURN. EVACUATE AREA.

Unusual Fire/Explosion Hazard: CONTAINER MAY EXPLODE IN HEAT/FIRE. CONTACT W/EASILY OXIDIZABLE, ORGANIC/OTHER COMBUSTIBLE MATERIALS MAY RESULT IN IGNITION, VIOLENT COMBUSTION/EXPLOSION.

Spill Release Procedures: MOVE CONTAINER FROM FIRE AREA SAFELY W/O RISK. STAY AWAY FROM ENDS OF TANKS. DON'T USE WATER ON MATERIAL ITSELF. **EVAC**

UATE TO A RADIUS OF 1500 FEET IF FIRE BECOMES UNCONTROLLABLE/IF CONTAINER IS EXPOSE D TO DIRECT FLAME.

Handling and Storage Precautions: PROTECT AGAINST PHYSICAL DAMAGE. PROTECT AGAINST OVERHEATING. OUTSIDE STORAGE OF LIQUID OXYGEN TANKS IS RECOMMENDED.

Other Precautions: ISOLATE FROM COMBUSTIBLE GAS INSTALLATIONS & COMBUSTIBLE MATERIALS BY ADEQUATE DISTANCE/BY GAS TIGHT FIRE RESISTIVE BARRIERS. AVOID CONTACT W/COMBUSTIBLE MATERIALS. IGNITION MAY OCCUR W/COMBUSTIBLES. CONTENTS ARE UNDER PRESSURE.

Respiratory Protection:ANY SUPPLIED AIR RESPIRATOR/SCBA W/A FULL FACEPIECE/ANY SUPPLIED AIR RESPIRATOR W/A FULL FACEPIECE IN A PRESSURE DEMAND MODE IN COMBINATION W/AN AUXILIARY SCBA; WHICH MUST NOT EXCEED THE LIMITS & MUST BE APPROVED BY NIOSH/MSHA. Ventilation:GENERAL DILUTION Protective Gloves:FULL PROTECTIVE/COLD INS ULATING Eye Protection:SPLASH PROOF SAFETY GOGGLES/FACESHIELD Other Protective Equipment:PROTECTIVE CLOTHING & EQUIPMENT, EYE WASH FOUNTAIN & QUICK DRENCH SHOWER. Supplemental Safety and Health SKIN: LIQUID MAY CAUSE FROSTBITE. EYES: MAY CAUSE IRRITATION & CAUSE FROSTBITE. INGESTION: FROSTBITE DAMAGE OF THE LIPS, MOUTH & MUCOUS

MEMBRANES MAY OCCUR.

Boiling Pt:B.P. Text:-297F Melt/Freeze Pt:M.P/F.P Text:-361F Vapor Pres:760 Vapor Density:1.1 Spec Gravity:1.1407 Solubility in Water:3.2% Appearance and Odor:ODORLESS LIGHT BLUE LIQUID

Stability Indicator/Materials to Avoid:YES WOOD, PAPER, OIL. Stability Condition to Avoid:HEAT/FLAME. Hazardous Decomposition Products:NON-HAZARDOUS

Waste Disposal Methods:DISPOSE OF IAW/FEDERAL, STATE & LOCAL REGULATIONS. EPA HAZARDOUS

WASTE D001, UN1073.

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