View NSN Online: https://aerobasegroup.com/nsn/9135-00-559-5287

Product ID:LIQUID NITROGEN MSDS Date:09/10/1998 FSC:9135 NIIN:00-559-5287 Status Code:A MSDS Number: CJGXH === Responsible Party === Company Name:MG INDUSTRIES Address:3 GREAT VALLEY PARKWAY City:MALVERN State:PA ZIP:19355-1424 Country:US Info Phone Num:215-630-5422 Emergency Phone Num:800-424-9300(CHEMTREC) 2 15-630-5422 Preparer's Name: OCCUPATIONAL HEALTH SRVCS 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

Ingred Name:OXYGEN CAS:7782-44-7 RTECS #:RS2060000 = Wt:100. Other REC Limits:NONE SPECIFIED

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:INHALATION: MAY CAUSE IRRITATION, LUNG CONGESTION & BLOOD DISORDERS. LONG TERM EXPOSURE MAY CAUSE LUNG DAMAGE. SKIN: FROSTBITE. EYES: IRRITATION, BLURRED VISION, BLINDNESS. INGESTION: FROSTBITE. Effects of Overexposure:IRRITATION, NAUSEA, ASTHMA, IRREGULAR

HEARTBEAT, DIZZINESS, TINGLING SENSATION, DILATED PUPILS, CONGES

TION, CONVULSIONS, CHEST PAIN, BLISTERS, FROSTBITE, BLURRED VISION

First Aid:INHALE:REMOVE FROM EXPOSURE IMMEDIATELY. USE A BAG VALVE MASK/SIMILAR DEVICE TO PERFORM CPR IF NEEDED. SKIN: WASH IF NEEDED. IF FROSTBITE, FREEZING/CRYOGENIC BURNS OCCUR, WARM AREA IN WARM WATER/GENTL Y WRAP AFFECTED PARTS IN BLANKETS. ALLOW CIRCULATION TO RETURN NATURALLY. EYES: WASH IMMEDIATELY W/LARGE AMOUNTS OF WATER. OBTA

IN MEDICAL ATTENTION IN ALL CASES.

Extinguishing Media:CARBON DIOXIDE, REGULAR/DRY CHEMICAL. Fire Fighting Procedures:USE FOAM/FLOOD W/FINE WATER SPRAY. MOVE CONTAINER FROM FIRE W/O RISK. COOL CONTAINERS W/WATER SPRAY/W/WATER FROM UNMANNED HOSE HOLDER/MONITOR NOZZLES UNTIL FIRE IS OUT. KEEP PEOPLE AWAY, ISOLATE AREA & DENY ENTRY.STAY AWAY FROM THE ENDS OF TANKS. EVACUATE RADIUS: 800 METERS/1 HALF MILE.

Unusua

I Fire/Explosion Hazard:MAY IGNITE/EXPLODE ON CONTACT W/COMBUSTIBLE MATERIALS. CONTAINERS MAY RUPTURE/EXPLODE IF EXPOSED TO HEAT.

Spill Release Procedures: AVOID CONTACT W/COMBUSTIBLE MATERIALS. DON'T TOUCH SPILLED MATERIAL. STOP LEAK IF POSSIBLE W/O RISK. KEEP UNNECESSARY PEOPLE AWAY, ISOLATE AREA & DENY ENTRY.

Handling and Storage Precaution

s:STORE & HANDLE IN ACCORDANCE W/OSHA 29CFR1910.104. PROTECT FROM PHYSICAL DAMAGE. KEEP SEPARATED FROM INCOMPATIBLE SUBSTANCES. STORE IN A COOL, DRY PLACE. STORE OUTSIDE/IN A DETACHED BUILDING. Other Precautions:AVOID CONTACT WITH COMBUSTIBLE MATERIALS.

Respiratory Protection:FOR FREQUENT USE/HEAVY EXPOSURE, USE ANY SUPPLIED-AIR RESPIRATOR W/FULL FACEPIECE & OPERATED IN A PRESSURE DEMAND /OTHER POSITIVE PRE

SSURE MODE IN COMBINATION W/A SEPARATE

ESCAPE SUPPLY/ANY SELF CONTA INED BREATHING APPARATUS W/A FULL FACEPIECE.

Ventilation: ENSURE COMPLIANCE W/APPLICABLE EXPOSURE LIMITS.

Protective Gloves: INSULATED

Eye Protection: SPLASH-RESISTANT SAFETY GOGGLES

Other Protective Equipment: EMERGENCY EYE WASH FOUNTAIN, QUICK DRENCH SHOWER IN THE IMMEDIATE WORK AREA, PROTECTIVE COLD INSULATING CLOTHING.

Supplemental Safety and Health

CONTACT LENSES SHOULD NOT BE WORN.

====== Physical

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

HCC:G7 Boiling Pt:=-183.C, -297.4F Melt/Freeze Pt:=-218.C, -360.4F 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 COMBUSTIBLE MATERIALS; HALO CARBONS, METALS, BASES, REDUCING AGENTS, AMINES, METAL SALTS, OXIDIZING MATERIALS. Stability Condition to Avoid:HEAT Haz

## ardous Decomposition Products:FORMS EXPLOSIVE MIXTURES, PEROXIDES, COMPOUNDS

Toxicological Information:LIQUID MAY CAUSE FROSTBITE TO EYES & SKIN. MAY CAUSE REDNESS, TINGLING, PAIN & NUMBNESS. IN SEVERE CASES, THE SKIN MAY BECOME HARD & WHITE, DEVELOPING BLISTERS. EYES: MAY CAUSE BLURRED VISION. IF LIQ UID IS SWALLOWED, FROSTBITE DAMGE OF THE LIPS, MOUTH & MUCOUS MEMBRANES MAY OCCUR.

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE W/LOCAL, STATE & FEDERAL REGULATIONS.

Transport Information:U.S. EPA 40 CFR 262. HAZARDOUS WASTE NUMBER D001. U.S. DOT 49 CFR 172.101 OXYGEN REFRIGERATED LIQUID UN1073.

SARA Title III Information:SARA HAZARD CATEGORIES, SARA SECTIONS 311/312 40CFR370.2

1: FIRE, SUDDEN RELEASE

State Regulatory Information: EUROPEAN REGULATIONS: EC RISK & SAFETY PHRASES; CONTACT W/COMBUSTIBLE MATERIAL MAY CAUSE FIRE. R8.

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