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UNION CARBIDE CORP/LINDE DIVISION -- LIQUID OXYGEN -- 9135-00-965-2527

Product ID:LIQUID OXYGEN MSDS Date:09/01/1985 FSC:9135 NIIN:00-965-2527 MSDS Number: BHGRQ === Responsible Party === Company Name: UNION CARBIDE CORP/LINDE DIVISION Address:39 OLD RIDGEBURY ROAD City:DANBURY State:CT ZIP:06817 Info Phone Num: (800) 822-4357 Emergency Phone Num: (800) 822-4357 CAG E:36346 === Contractor Identification === Company Name: UNION CARBIDE CORP LINDE DIV Address:39 OLD RIDGEBURY RD Box:City:DANBURY State:CT ZIP:06817-0001 Country:US Phone:800-822-4357; 304-744-3487 CAGE:36346 

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

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

rts of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: INGESTION/SKIN/EYES: SEVERE FROSTBITE MAY RESULT FROM CONTACT W/LIQUID. NO HARMFUL EFFECTS EXPECTED FROM VAPOR. INHALATION: NASAL STUFFINESS, BREATHING DIFFICULTY, LUNG DAMAGE, CENTRAL NERVOUS SYSTEM EFFECTS, DIZZINESS, HEARING DISTURBANCES, UNCONSCIOUSNESS & CONVULSIONS ARE CAUSE BY PROLONGED BREATHING OF 80% OXYGEN. Explanation of Carcinogenicity:NONE Effects of Overexposure: INGESTION/SKIN/EY ES: SEVERE FROSTBITE MAY RESULT FROM CONTACT W/LIQUID. NO HARMFUL EFFECTS EXPECTED FROM VAPOR. INHALATION: NASAL STUFFINESS, BREATHING DIFFICULTY, LUNG DAMAGE, CENTRAL NERVOUS SYSTEM EFFECTS, DIZZINESS, HEARING DISTURBANCES, UNCONSCIOUSNESS & CONVULSIONS. First Aid:SKIN: FLUSH FROSTBITE AREA W/WARM WATER. REMOVE & THOROUGHLY WASH AIR CONTAMINATED CLOTHING, CALL PHYSICIAN, INHALATION: REMOVE TO FRESH A IR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. KEEP VICTIM WARM AND AT REST. CALL PHYSICIAN. EYES:FLUSH W/WATER FOR AT LEAST 15 MINUTES. SEE PHYSICIAN. Extinguishing Media: OXIDIZING AGENT. USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. USE WATER FOR EXTINGUISHING MEDIA FOR CLOTHING FIRES. Fire Fighting Procedures: EVACUATE ALL PERSONNEL FROM DANGER AREA. COOL CONTAINERS W/WATER SPRAY. DON'T DISCHARGE WATER SPRAYS INTO LIQUID OXYGEN. Unusual Fire/Explosion Hazard: OXIDIZING AGENT, VIGOROUSLY ACCELERATES COMBUSTION. CONTACT W/FLAMMABLE MATERIALS MAY CAUSE FIRE/EXPLOSION. CLOSED CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE. 

Spill Release Procedures: EVACUATE ALL PERSONNEL FROM DANGER AREA. EXTREMELY COLD OXIDIZING LIQUID & GAS. ALLOW SPILLED LIQUID TO EVAPORATE. DON'T WALK ON/ROLL EQUIPMENT OVER SPILL. SHUT OFF LEAK IF W/O RISK. VENTILATE AREA OF LEAK/MOVE LEAKING CONTAINER TO VENTILATED AREA.

Handling and Storage Precautions:FOR STORAGE & USE AT CONSUMER SITES, REFER TO NFPA50, "BULK OXYGEN SYSTEMS', & NFPA 51, "OXYGEN-FUEL GAS SYSTEM FOR WELDING, CUTTING & ALLIED PROCESS.

Other Precautions:NEVER WORK ON A PRESSURIZED SYSTEM. IF THERE IS A LEAK, CLOSE THE CYLINDER VALVE, BLOW DOWN THE SYSTEM BY VENTING TO A SAFE

PLACE. THEN REPAIR THE LEAK. NEVER LUBRICATE OXYGEN VALVES, REGULATORS, ETC., W/ANY COMBUSTIBLE SUBSTANCE OR GREASE.

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

Ventilation: PROVIDE ADEQUATE MECHANICAL/LOCAL EXHAUST VENTILATION. Protective Gloves: LOOSE-FITTING CRYOGENIC

Eye Protection: IN ACCORDANCE W/OSHA 29 CFR 1910.133

Other Protective Equipment:METATARSAL SHOES, CUFFLESS TROUSERS, HIGH TOP SHOES.

Work Hygienic Practices: DON'T GET LIQUID IN EYES, ON SKIN OR C LOTHING.

CLOTHING EXPOSED TO OXYGEN SHOULD BE REMOVED & AIRED OUT. Supplemental Safety and Health

Boiling Pt:B.P. Text:-297.4F Melt/Freeze Pt:M.P/F.P Text:-361.1F Vapor Pres:GAS Vapor Density:1.105 Spec Gravity:1.141 Evaporation Rate & amp; Reference:(BU AC = 1): HIGH Appearance and Odor:LIGHT BLUE CRYOGENIC LIQUID, ODORLESS Percent Volatiles by Volume:100%

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Stability Indicator/Materials to Avoid:YES
FLAMMABLE & COMBUSTIBLE MATERIALS, OILS & GREASES INCLUDING MANY MATERIALS NOT NORMALLY CONSIDERED FLAMMABLE.
Stability Condition to Avoid:HEAT. OXYGEN REACTS W/MANY MATERIALS.
SMOKING, FLAMES, & ELECTRIC SPARKS IN THE PRESENCE OF ENRICHED OXYGEN ATMOSPHERES.
Hazardous Decomposition Products:NONE

Waste Disposal Methods: KEEP PERSONNEL AWAY. LIQUID OXYGEN SHOULD BE D UMPED INTO AN OUTDOOR PIT FILLED W/CLEAN, GREASEFREE & OIL-FREE GRAVEL, WHERE IT WILL SAFELY EVAPORATE.

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