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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

======= Composition/Information on Ingredients ========

Ingred Name: OXYGEN (GAS OR LIQUID)

CAS:7782-44-7

RTECS #:RS2060000 Fraction by Wt: 100%

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

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 Measures	
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- 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.

========== Fire Fighting Measures ================

- 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.

========= Accidental Release Measures ============

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

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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
========= Physical/Chemical Properties ==========
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 & Description Rate & Descript
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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
======= Disposal Considerations ===========
Waste Disposal Methods:KEEP PERSONNEL AWAY. LIQUID OXYGEN SHOULD BE

IF W/O RISK. VENTILATE AREA OF LEAK/MOVE LEAKING CONTAINER TO

VENTILATED AREA.

UMPED INTO AN OUTDOOR PIT FILLED W/CLEAN, GREASEFREE & OIL-FREE GRAVEL, WHERE IT WILL SAFELY EVAPORATE.

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