View NSN Online: https://aerobasegroup.com/nsn/9135-00-965-2527

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

CA

GE: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

Rep

orts 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/E

YES: 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	
--	--------------------	--

First Aid:SKIN: FLUSH FROSTBITE AREA W/WARM WATER. REMOVE & THOROUGHLY WASH AIR CONTAMINATED CLOTHING. CALL PHYSICIAN. INHALATION: REMOVE TO FRESH

AIR. 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 Fighti	ng 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 WATE R 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 LEA

K
IF W/O RISK. VENTILATE AREA OF LEAK/MOVE LEAKING CONTAINER TO VENTILATED AREA.
============ Handling and Storage ==============
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 SAF E 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 CLOTHING. 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
=========== Stability and Reactivity Data ==================================
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.

TO

Hazardous Decomposition Products:NONE

======= Disposal Considerations ==========

Waste Disposal Methods:KEEP PERSONNEL AWAY. LIQUID OXYGEN SHOULD BE

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

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional ad vice to verify and assume responsibility for the suitability of this information to their particular situation.