

UNION CARBIDE CORP/LINDE DIV -- L-4638-A OXYGEN -- 6505-00-132-5181

===== Product Identification =====

Product ID:L-4638-A OXYGEN

MSDS Date:09/01/1985

FSC:6505

NIIN:00-132-5181

MSDS Number: BLRDB

=== Responsible Party ===

Company Name:UNION CARBIDE CORP/LINDE DIV

Address:39 OLD RIDGEBURY ROAD

City:DANBURY

State:CT

ZIP:06817-0001

Info Phone Num:(304) 744-3487

Emergency Phone Num:(304) 744-3487

CAG

E:61637

=== Contractor Identification ===

Company Name:UNION CARBIDE CORP

Address:39 OLD RIDGEBURY ROAD

Box:City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Phone:800-822-4357/732-563-5522 (MSDS)

CAGE:61637

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

Ingred Name:OXYGEN (GAS)

CAS:7782-44-7

RTECS #:RS2060000

Fraction by Wt: 100%

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

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

Reports of Carcinog

enicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:INHALATION: NASAL

STUFFINESS/COUGH/SORE THROAT/CHEST PAIN/BREATHING DIFFICULTY/LUNG
DAMAGE/CNS EFFECTS RESULTING IN DIZZINESS/POOR
COORDINATION/TINGLING SENSATION/VISUAL & HEARING
DISTURBANCES/MUSCULAR
Twitching/unconsciousness/convulsions/prolongation of adaptation to
darkness/reduced peripheral vision.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION: ALVEOLAR COLLAPSE FOLLOWING OX
YGEN

ABSORPTION, EARDRUM RETRACTION, OBSTRUCTION OF PARANASAL SINUSES
PRODUCING VACUUM-TYPE HEADACHE. NEWBORN PREMATURE INFANTS OR ADULTS
EXPOSED TO 100% OXYGEN MAY SUFFER DELAYED RETINAL DAMAGE, WHICH
CAN PROGRESS TO RETINAL DETACHMENT & BLINDNESS.

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===== First Aid Measures =====

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION
IF NOT BREATHING. KEEP VICTIM WARM & AT REST. OBTAIN MEDICAL
ATTENTION IN ALL CASES

. PHYSICIAN NOTE: SUPPORTIVE TREATMENT SHOULD
INCLUDE IMMEDIATE SEDATION/ANTI-CONVULSIVE THERAPY/REST. ALL
INDIVIDUALS EXPOSED FOR LONG PERIODS TO OXYGEN AT HIGH PRESSURE &
ALL WHO EXHIBIT OVERT OXYGEN TOXICITY SHOULD HAVE OPHTHALMOLOGIC
EXAMINATIONS.

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

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. WATER
IS THE PREFERRED EXTINGUISHING MEDIA FOR CLOTHING FIRES.

Fire Fighting Procedures:EVAC

UATE ALL PERSONNEL FROM DANGER AREA. COOL
CONTAINERS W/WATER SPRAY FROM MAXIMUM DISTANCE UNTIL COOL, THEN
MOVE CONTAINERS AWAY FROM FIRE AREA SAFELY.

Unusual Fire/Explosion Hazard:CONTACT W/FLAMMABLE MATERIAL MAY CAUSE
FIRE/EXPLOSION. CONTAINER MAY RUPTURE DUE TO HEAT OF FIRE OR
REVERSE FLOW INTO CYLINDER. COMBUSTIBLE/HIGH PRESSURE GAS.

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

Spill Release Procedures:SHUT OFF LEAK IF W/OUT RISK. VENTILATE AREA OF

LEAK OR MOVE LEAKING CONTAINER TO WELL-VENTILATED AREA. REMOVE ALL FLAMMABLE MATERIALS FROM VICINITY. IF THERE IS A LEAK, CLOSE CYLINDER VALVE/BLOW DOWN SYSTEM BY VENTING TO SAFE PLACE/REPAIR THE LEAK.

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===== Handling and Storage =====

Handling and Storage Precautions:NEVER LUBRICATE OXYGEN VALVES/REGULATORS/ETC. W/ANY COMBUSTIBLE SUBSTANCE. DON'T USE OXYGEN JET TO CLEAN, INCREASES DANGER OF ENGULFING FIRE.

Other Precautions:USE ONLY W/EQ

EQUIPMENT CONDITIONED FOR OXYGEN SERVICE.

OXYGEN MUST NEVER BE PERMITTED TO STRIKE AN OILY SURFACE/GREASY CLOTHES/OTHER COMBUSTIBLE MATERIAL. ISOLATE FROM IGNITION SOURCES. USE CHECK VALVE IN ANY LINE OF PIPING FROM CYLINDER.

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

Respiratory Protection:AS REQUIRED

Ventilation:MECHANICAL (GENERAL): ACCEPTABLE.

Protective Gloves:PREFERRED FOR CYLINDER HANDLING

Eye Protection:AS REQUIRED

Other Protective Equipment:SAFETY SHOES

HOWER & METATARSAL SHOES FOR

CYLINDER HANDLING

Supplemental Safety and Health

WHEN 2 OR MORE GASES OR LIQUEFIED GASES ARE MIXED, THEIR HAZARDOUS PROPERTIES MAY COMBINE TO CREATE ADDITIONAL UNEXPECTED HAZARDS.

READ/UNDERSTAND LABEL PRECAUTION/SAFETY INFORMATION BEFORE PRODUCING MIXTURE. MOST CONTAINERS ARE PROVIDED W/PRESSURE RELIEF DEVICE DESIGNED TO VENT CONTENTS WHEN EXPOSED TO HIGH TEMP.

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===== 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:GAS

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS

Percent Volatiles by Volume:100%

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZING AGENTS, COMBUSTIBLE MATERIALS, ASPHALT, FLAMMABLE MATERIALS, ESPECIALLY OILS & GREASES

Stability Condition to Avoid:TEMPERATURE >125F, FLAMES, ELECTRIC SPARKS,

PHYSICAL DAMAGE, OVER-HEATING

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

Waste Disposal Methods: SLOWLY RELEASE INTO ATMOSPHERE, IN AN OPEN, OUTDOORS AREA IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS. COMBUSTIBLE, HIGH PRESSURE GAS.

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