

UNION CARBIDE CORP/LINDE DIV -- L-4638-A OXYGEN -- 6505-00-132-5225

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

Product ID:L-4638-A OXYGEN

MSDS Date:09/01/1985

FSC:6505

NIIN:00-132-5225

MSDS Number: BLRDC

=== 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

CAGE

: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 Carcinoge

nicity: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 OXY
GEN

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:EVACU

ATE 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/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 & 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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