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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/MUSCULA R 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% OXYG EN MAY SUFFER DELAYED RETINAL DAMAGE, WHICH CAN PROGRESS TO RETINAL DETACHMENT & BLINDNESS. 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 IM MEDIATE 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.** ============ 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.

======== 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.

=========== 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/EQU

IPMENT 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.

====== 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 SH

OWER & 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 UNEXPECTD HAZARDS. READ/UNDERSTAND LABEL PRECAUTION/SAFETY INFORMATION BEFORE PRODUCING M IXTURE. MOST CONTAINERS ARE PROVIDED W/PRESSURE RELIEF DEVICE DESIGNED TO VENT CONTENTS WHEN EXPOSED TO HIGH TEMP.

======== 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%

======== 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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