

PRAXAIR INC -- OXYGEN -- 6830-01-431-0681

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

Product ID:OXYGEN

MSDS Date:12/01/1992

FSC:6830

NIIN:01-431-0681

MSDS Number: CGDZK

=== Responsible Party ===

Company Name:PRAXAIR INC

Address:39 OLD RIDGEBURY RD

City:DANBURY

State:CT

ZIP:06817-0001

Country:US

Info Phone Num:203-794-5782

Emergency Phone Num:203-794-5782/800-424-9300(CHEMTREC)

CAGE:0LV01

=== Contractor Id

entification ===

Company Name:PRAXAIR, INC.

Address:39 OLD RIDGEBURY RD

Box:City:DANBURY

State:CT

ZIP:06810-5113

Country:US

Phone:800-772-9247; 800-PRAXAIR

CAGE:0LV01

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

Ingred Name:OXYGEN

CAS:7782-44-7

RTECS #:RS2060000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:TLV:NONE CURRENTLY ESTABLISHED

Routes of Entry: Inhalation:YES Ski

n:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:SKIN/EYE/INGEST/SKIN ABSORPTION:NO
EVIDENCE OF ADVERSE EFFECTS FRM AVAI INFO.INHAL:BREATH 80% OR MORE
OXY @ATMS PRESSURE FOR MORE THAN FEW HRS MAY CAUSE NASAL
STUFFINESS,COUGH,SORE THROAT,CHEST PAIN,B REATH DIFFI.BREATH OXY
@HI PRESSURE INCR LIKELIHOOD OF ADVERSE EFFECTS W/IN SHORTER TIME
PER.BREATH PURE OXY UNDER(SUP)
Effects of Overexposure:NO EVIDENCE OF ADVERSE EFFECT
S FROM AVAILABLE
INFORMATION.
Medical Cond Aggravated by Exposure:INDIVIDUALS WHOSE RETINAL
CIRCULATION HAS BEEN PREVEIOUSLY COMPROMISED.

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

First Aid:INGEST:THIS PRODUCT IS GAS @NORMAL TEMP/PRESSURE.SKIN:NO
EMERGENCY CARE ANTICIPATED.INHAL:REMOVE TO FRESH AIR.GIVE
ARTIFICIAL RESPRIATION IF NOT BREATHING.KEEP VICTIM WARM &
@REST.CALL PHYSICIAN.EYE:N O EMERGENCY CARE ANTICIPATED.

===== Fire F
ighting Measures =====

Flash Point:NA
Autoignition Temp:Autoignition Temp Text:NA
Lower Limits:NA
Upper Limits:NA
Extinguishing Media:VIGOROUSLY ACCELERATES COMBUSTION.USE MEDIA APPROP
FOR SURROUNDING FIRE.WATER(SAF SHOWER)PREFER EXT MEDIA FOR CLOTH
FIRE
Fire Fighting Procedures:EVACUATE ALL PERSONNEL FROM DANGER AREA.IMMED
COOL CNTNRS W/WATER SPRAY FROM MAX DISTANCE TIL COOL,THEN MOVE
CNTNRS AWAY FRM FIRE AREA IF W/O RISK.
Unusual Fire/Explosion Hazard:OXIDIZIN
G AGENT,VIGOROUSLY ACCELERATES
COMBUSTION.CONTACT W/FLAMM MATL MAY CAUSE FIRE/EXPLO.CNTNR MAY
RUPTURE DUE TO FIRE HEAT. DONT SUBJ TO >52C.(NEUTRALIZ)

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

Spill Release Procedures:SHUT OFF LEAK W/O RISK.VENTI AREA/MOVE LEAK
CNTNRN TO WELL VENTI AREA.REMOVE ALL FLAMM MATLS FROM VICINITY.OXY
MUST NEVER BE PERMITTED TO STRIKE OILY SURF,GREASY CLOTHES,OTHER
COMBUST MATL.
Neutralizing Agent:FIRE/EXPLO:MOST CNTNR PROV

IDE W/PRESS RELIEF
DEVICE-VENT WHEN EXPO HI TEMP.

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

Handling and Storage Precautions:READ/UNDERSTAND MFG
INSTRUCTIONS/PRECAUT LABEL ON PROD.SEE AMER STD Z49.1 & OSHA
PUBLICATION 2206(29CFR1910).REFER PRAXAIR L-52-529,L-2035-FREE
COPIES

Other Precautions:ALL EXPO FOR LONG PER OT OXY @HI PRESSURE & ALL WHO
EXHIBIT OVERT OXY TOXICITY SHOULD HAVE OPHTHALMOLOGIC EXAMS.NEVER
USE MANIFOLDS FOR OXY CYL UNLESS SPE
C DESGNEED FOR SUCH USE.PROTECT
CNTNR AGAINST P HYS DMG/OVERHEAT.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL USE.HOWEVER
AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED
SPACES W/THIS PRODUCT.THE RESP PROTECTION USE MSUT CONFORM W/OSHA
RULES AS SPECIFIED IN 29CFR1910 .134.

Ventilation:USE LOCAL EXHAUST SYST IF NECESSARY TO PREVENT BUILD UP OF
OXY CONCEN.MECH(GEN):ACCEPTABLE.

Protective

Gloves:PREFERRED FOR CYLINDER HNDLG

Eye Protection:SELECT IAW OSHA 29CFR1910.133

Other Protective Equipment:METATARSAL SHOES FOR CYL HNDLG.SELECT IAW
OSHA 29CFR1910.132,10910.133.

Work Hygienic Practices:NEVER WORK ON PRESSUR SYS.IF LEAK CLOSE CYL
VALVE BLOW DOWN SYS(VENTI),REPAIR LEAK.NEVER LUB OXY VALV,REG,ETC
W/COMB MAT

Supplemental Safety and Health

HEALTH:PRESSURE MAY CAUSE LUNG DMG & ALSO CNS EFFECES RESULTING IN
DIZZ,POOR COORDINATION,TINGLING SENS,VISUAL/HEARING
DISTUR

BANCES,MUSCULAR TWITCHING,UNCONSC,CONVUL.BREATH OXY UNDER
PRESSURE MAY CAUSE PROLONGATION OF ADAPTION TO DARKNESS &RED
PERIPHERAL VISION.

===== Physical/Chemical Properties =====

HCC:D1

Boiling Pt:B.P. Text:-297F,-183C

Melt/Freeze Pt:M.P/F.P Text:-361F,-218C

Decomp Temp:Decomp Text:NP

Vapor Pres:GAS

Vapor Density:1.10

Spec Gravity:GAS

pH:NP

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS

GAS AT NORMAL TEMPERATURE AND
PRESSURE.

Percent Volatiles by Volume:100

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES
COMBUSTIBLE MATLS,ASPHALT,FLAMM MATLS,ESPECIALLY OILS & GREASES.
Stability Condition to Avoid:SMOKING,FLAMES,ELECTRIC SPARKS IN PRESENCE
OF ENRICHED OXY ATMS ARE POTENTIAL EXPLO HAZ.
Hazardous Decomposition Products:NONE

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

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Waste Disposal Methods:SLOWLY RELEASE INTO ATM IN OPN OUTDOORS
AREA.REMOVE ALL FLAMM MATLS FROM VICINITY.

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