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AIR PRODUCTS AND CHEMICALS, INC. -- OXYGEN, LOX (LIQUID ONLY) GOX (GAS ONLY) --

6830-00-169-0805

Product ID:OXYGEN, LOX (LIQUID ONLY) GOX (GAS ONLY)

MSDS Date:11/18/1987

FSC:6830

NIIN:00-169-0805

MSDS Number: BHDBG === Responsible Party ===

Company Name: AIR PRODUCTS AND CHEMICALS, INC.

Address: 2043 S 35TH ST

Box:11393

City:ALLENTOWN

State:PA ZIP:18195 Country:US

Info Phone Num:215-481-8257

Emergency Phone Num:1-800-523-9374 IN PA:1-800-322-9092

CAGE:00742

=== Contractor Identification ===

Company Name: AIR PRODUCTS AND CHEMICALS INC

Address:7201 HAMILTON BLVD

Box:City:ALLENTOWN

State:PA

ZIP:18195-1501 Country:US

Phone: 800-345-3148/800-752-1597

CAGE:00742

Company Name: OXYGEN SALES AND SERVICE INC

Address: 2043 S 35TH ST

Box:11393 City:TACOMA State:WA

ZIP:98411-0393

Country:US CAGE:5H199

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

Ingred Name:OXYGEN, LOX (LIQUID ONLY), GOX (GAS ONLY) CAS:7782-44-7

RTECS #:RS2060000

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:BREATHING PURE OXYGEN AT ONE ATMOS,MAY PRODUCE COUGH & CHEST PAINS W/IN 8-24 HOURS.CONCENTRATIONS OF 60% MAY PRODUCE THESE SYMPTOMS IN SEVERAL DAYS.AT TWO ATMOSSYMPTOMS OCCUR IN 2-3 HRS

.PARTIAL PRESSU RE OF OXY IN EXCESS OF TWO ATMOS
MAY PRODUCE A VARIETY OF CENTRAL NERVOUS SYS MANIFESTATIONS.
Effects of Overexposure:LIQUID OSYGEN OR COLD GAS WILL FREEZE TISSUES &
CAN CAUSE SEVERE CRYOGENIC (EXTREMELY LOW TEMPERATURE)BURNS.

First Aid:IF CRYOGENIC LIQUID OR COLD BOIL-OFF GAS CONTACTS A WORKER'S SKIN OR EYES,FROZEN TISSUES SHOULD BE FLOODED OR SOAKED W/TEPID WATER(105-115F;41-46C).DO NOT USE

HOT WATER.BURNS WHICH RESULT IN BLISTERI NG OR DEEPER TISSUE FREEZING SHOULD BE SEEN PROMPTLY BY A PHYSICIAN.

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

Flash Point:NA Lower Limits:NA Upper Limits:NA

Extinguishing Media:NA

Fire Fighting Procedures:OXYGEN IS NONFLAMMABLE,BUT SUPPORTS & VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES.TO FIGHT FIRES,SHUT OFF SOURCES OF OXYGEN & FIGHT LIKE CONVENTIONAL FIRE.

Unusual Fire/Explosion Hazard:OXYGEN IS NONFLAMM

ABLE.BUT SUPPORTS &

VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES.SOME MTRLS WHICH ARE NONCOMBUSTIBLE IN AIR WILL BURN IN PRESENCE OF OXY.

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

Spill Release Procedures:PREVENT LIQ OXY FROM CONTACTING
GREASE,OIL,ASPHALTOR COMBUSTIBLES.VENTILATE AREA TO EVAP & DISPERSE
OXY.FLUSH AREA W/LARGE QTYS OF WTR.DO NOT ENTER AREAS OF HIGH
OXYGEN CONCENTRATION,WHICH CAN SATURAT E CLOTHING & INCREASE ITS
FLAMMABILITY.

============= Handling and Storage ===============
Handling and Storage Precautions:USE/STORE IN WELL VENT AREA.DO NOT DRAG,ROLL OR SLIDE.USE SUITABLE HAND TRUCK.KEEP CYLS AWAY FROM SOURCES OF HEAT.SEGREGATE FULL/EMPTY CYLS. Other Precautions:OXYGEN IS NOT TO BE USED AS A SUBSTITUTE FOR COMPRESSED AIR.APPLICATIONS SUCH ASCLEANING,DUSTIN,POWERING PNEUMATIC TOOLS,ETC.,ARE NOT SAFE DUE TO LUBRICATING OILS & OTHER MATERIALS PRESENT.USE ONLY W/ EQUIP SPEC DESIG NED & CLEANED FOR OXY SV
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NA Ventilation:YES Protective Gloves:LOOSE-FITTING GLOVES SUCH AS LEATHER Eye Protection:CHEMICAL GOGGLES/SAFETY GLASSES Other Protective Equipment:NA Supplemental Safety and Health NK
========== Physical/Chemical Properties ===========
HCC:G4 Boiling Pt:B.P. Text:-297.3F * Vapor Pres:NA Vapor Density:@68F 20C* Spec Gravity:@BOILING POINT* Solubility in Wat er:@77F 25C * Appearance and Odor:GASEOUS OXYGEN IS COLORLESS & ODORLESS.LIQUID OXYGEN IS PALE BLUE & ODORLESS
========= Stability and Reactivity Data ==========
Stability Indicator/Materials to Avoid:YES ALL FLAMMABLES,ESPECIALLY PETROLEUM PRODUCTS,ASPHALT,OTHER VOLATILE FLAMMABLES. Stability Condition to Avoid:MATERIALS WHICH BURN IN AIR WILL BURN VIOLENTLY IN ATMOS RICHER THAN APPROX 25% OXYGEN. Hazardous Decomposition Products:NONE ==================================
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sal Considerations =========

Waste Disposal Methods:ALLOW LIQ OXY TO EVAP IN A WELL VENT OUTDOOR AREA.VENT OXY GAS TO OUTSIDE LOCATION.DISPOSAL SITE SHOULD BE REMOTE FROM WORK AREAS,OPEN FLAMES OR SOURCES OF IGNITION & COMBUSTIBLES.FLUSHING W/WTR WILL INCREASE THE VAPORIZATION RATE OF THE LIQUID.

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