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## AIR PRODUCTS AND CHEMICALS INC. -- OXYGEN, COMPRESSED -- 1660-01-138-8623

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

Product ID:OXYGEN, COMPRESSED

MSDS Date:01/01/1995

FSC:1660

NIIN:01-138-8623 Status Code:A

MSDS Number: CJKDL === Responsible Party ===

Company Name: AIR PRODUCTS AND CHEMICALS INC.

Address:7201 HAMILTON BLVD

City:ALLENTOWN

State:PA

ZIP:18195-1501 Country:US

Info Phone Num:800-752-1597; 800

-345-3148

Emergency Phone Num: US/800-523-9374/OUT-US: 810-481-7711

Resp. Party Other MSDS Num.:1012

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: CONAX FLORIDA CORP

Address:2801 75TH STREET N Box:City:SAINT PETERSBURG

State:FL

ZIP:33710-2936 Country:US

Phone:813-345-8000

Contract Num:SP0920-99-M-1045

CAGE:62323

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Ingred Name:OXYGEN CAS:7782-44-7 RTECS #:RS2060000 &qt; Wt:99.

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

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS: EYES, CENTRAL NERVOUS
SYSTEM. INHALATION: BREATHING 80% OR MORE OXYGEN AT ATMOSPHERIC
PRESSURE FOR MORE THAN A FEW HOURS MAY CAUSE BREATH
ING DIFFICULTY.

BREATHING OXYGEN AT HIGHER PRE SSURE INCREASES THE LIKEIHOOD OF ADVERSE EFFECTS WITHIN A SHORTER TIME PERIOD. BREATHING PURE OXYGEN UNDER PRESSURE MAY CAUSE LUNG DAMAGE & ALSO CENTRAL NERVOUS SYSTEM EFFECTS. BREATHING OXYGEN UNDER PRESSURE MAY CAUSE PROLONGATION OF ADAPTATION TO DARKNESS & REDUCED PERIPHERAL VISION. EYE/SKIN CONTACT: NO ADVERSE EFFECT. AIRWAY OBSTRUCTION DURING HIGH CONC. MAY CAUSE ALVEOLAR COLLAPSE & OCCLUSIO N OF THE EUSTACHIAN TU

Effects of Overexposure:INHALATION: BREATHING 80% OR MORE OXYGEN AT ATMOSPHERIC PRESSURE FOR MORE THAN A FEW HOURS MAY CAUSE NASAL STUFFINESS, COUGH, SORE THROAT, CHEST PAIN & BREATHING DIFFICULTY. BREATHING PURE OXYGEN UNDE R PRESSURE MAY CAUSE DIZZINESS, POOR COORDINATION, TINGLING SENSATION, VISUAL & HEARING DISTURBANCES, MUSCULAR TWITCHING, UNCONSCIOUSNESS & CONVULSIONS. OBSTRUCTION OF HTE PARANASAL SINUSES MAY PRODUC T 'VACUUM-TYPE' HEADACHE.

Medical Cond Aggrav

ated by Exposure: CHRONIC OBSTRUCTIVE PULMONARY DISEASE.

First Aid:INHALATION: MOVE VICTIM TO FRESH AIR OR IF IN ELEVATED PRESSURES REDUCE OXYGEN PRESSURES TO 1 ATMOSPHERE. CALL A PHYSICIAN & ADVISE THEM THAT THE VICTIM HAS BEEN EXPOSED TO A HIGH CONCENTRATION OF OXY GEN. EYE/SKIN CONTACT: NOT APPLICABLE. NOTES TO PHYSICIAN: ADMINISTRATION OF CERTAIN DRUGS, INCLUDING PHENOTHIAZINE DRUGS & CHLOROQUINE.

## VITAMIN 'E' DEFICIENCY MAY INCREASE SYSCEPTIBILITY TO OXYGEN T OXICITY.

Lower Limits: NONFLAMMABLE Upper Limits: NONFLAMMABLE

Extinguishing Media:OXYGEN IS NONFLAMMABLE BUT WILL SUPPORT COMBUSTION. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures: EVACUATE ALL PERSONNEL FROM THE DANGER AREA. IF POSSIBLE, SHUT OFF FLOW OF OXYGEN WHICH IS SUPPORTING THE FIRE. IMMEDIATELY COOL CONTA

INERS WITH WATER SPRAY FROM MAXIMUM DISTANCE.

WHEN COOL MOVE CYLIN DERS FROM FIRE AREA, IF POSSIBLE WITHOUT RISK. SELF CONTAINED BREATHING APPARATUS MAY BE REQUIRED FOR RESCUE WORKERS.

Unusual Fire/Explosion Hazard:OXYGEN VIGOROUSLY ACCELERATES COMBUSTION. MATERIALS WHICH ARE NONCOMBUSTIBLE IN AIR WILL BURN IN PRESENCE OF OXYGEN ATMOSPHERE(OVER23%). FIRE RESIST CLOTHING MAY BURN & OFFER NO PROTECTION IN OXYGEN R ICH ATMOSPHERES. OXYGEN MAY FORM EXPLOSIVE COMPDS WHEN E

XPOSED TO COMBUST MATLS OR OIL, GREASE, & OTHER HYDROCARBON MATLS.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM EFFECTED AREA.
SHUT OFF SOURCE OF OXYGEN IF POSSIBLE. INCREASE VENTILATION TO
RELEASE AREA. PERSONNEL EXPOSED TO HIGH CONC. OF OXYGEN SHOULD STAY
IN A WELL-VENTILATED AREA FOR 30 MIN. BEFORE GOING INTO A CONFINED
SPACE OR NEAR AN IGNITION SOURCE.

| ======================================= | Handling a | ına Storage |
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Handling and Storage Precautions: CYLINDERS SHOULD BE STORED UPRIGHT IN A WELL-VENTILATED AREA. STORAGE AREA TEMPERATURES SHOULD NOT EXCEED 125F (52C) & AREA SHOULD BE FREE OF COMBUSTIBLES. DO NOT DRAG, ROLL, OR SLIDE CYLINDER. USE A PRESSURE REDUCING OR SEPARATE CONTROL VALVE TO SAFELY DISCHARGE GAS FROM CYLINDER.

Other Precautions:ALL GAUGES, VALVES, REGULATORS, PIPING & EQUIPMENT TO BE USED IN OXYGEN SERVICE MUST BE CLEANED FOR OXYGEN SERVICE IN

| ====== Exposure Controls/Personal Protection ========  |
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| Respiratory Protection:GENERAL USE: NONE REQUIRED. EMERGENCY: USE SCBA, DUE TO POSSIBILITY OF FIRE WHEN CONCENTRATIONS EXCEED 23%. Ventilation:PROVIDE VENTILATION AND/OR LOCAL EXHAUST TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS OF GAS (23%). Protective Gloves:WORK GLOVES |
| Other Protective Equipment:SAFETY SHOES/WORK GLOVES RECOMMENDED WHEN HANDLING CYLI   |
| NDERS. CLOTHING EXPOSED TO HIGH CONCENTRATIONS MAY RETAIN OXYGEN 30 MINUTES OR LONGER & BECOME POTENTIAL FIRE HAZARD. STAY AWAY FM IGNITION SOURCES Supplemental Safety and Health   |
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| HCC:G4 Boiling Pt:=-182.9C, -297.2F Melt/Freeze Pt:=-218.8C, -361.8F Vapor Pres:N/A@70F Vapor Density:70F(21.1C) Spec Gravity:70F & 1ATM; 1.10 (AIR=1) Solubility in Water:VOL/VOL AT 32F(0C); 0.049 Appearance and Odor:COLORLESS GAS. ODORLESS.                                  |
| ========= Stability and Reactivity Data ===========  |
| Stability Indicator/Materials to Avoid:YES OILS, GREASE, HYDROCARBONS AND FLAMMABLE MATERIALS. Stability Condition to Avoid:NONE. Hazardous Decomposition Products:NONE.   |
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| Toxicological Information:AT ATMOSPHERIC CONCENTRATION & PRESSURE, OXYGEN POSES NO TOXICITY HAZARDS. PREMATURE INFANTS EXPOSED TO HIGH OXYGEN CONC. MAY SUFFER DELAYED RETINAL DAMAGE WH ICH CAN PROGRESS  |
| TO RETINAL DETACHMENT & B LINDNESS. RETINAL DAMAGE MAY ALSO OCCUR IN ADULTS EXPOSED TO 100% OXYGEN FOR EXTENDED PERIODS (24 TO 48 HOURS).  |
| ============ Ecological Information ==============   |
| Ecological:THE ATMOSPHERE CONTAINE 21% OXYGEN. NO ADVERSE ECOLOGICAL EFFECTS ARE EXPECTED. OXYGEN DOES NOT CONTAIN ANY CLASS I OR CLASS II OZONE DEPLETING CHEMICALS & IS NOT LISTED AS A MARINE POLLUTANT BY DOT (49 CFR 171).  |
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ACCORDANCE WITH COMPRESSED GAS ASSOCIATION PAMPHLET G-4.1.

sposal Considerations ==========

Waste Disposal Methods:RETURN CONTAINER & UNUSED PRODUCT TO SUPPLIER.
DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITES. FOR
EMERGENCY DISPOSAL, SECURE CYLINDER & SLOWLY DISCHARGE GAS TO THE
ATMOSPHERE IN A WELL VE NTILATED AREA OR OUTDOORS.

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| Transport Information:OXYGEN, COMPRESSED, UN1072 |
| ========= MSDS Transport Information =========== |

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RA Title III Information:SECTION 302: REQUIRES EMERGENCY PLANNING BASED ON THRESHOLD PLANNING QUANTITIES & RELEASE REPORTING BASED ON REPORTABLE QUANTITIES OF EPA'S EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355). SECTIONS 311/3 12: REQUIRE SUBMISSION OF MATERIAL SAFETY DATA SHEETS & CHEMICAL INVENTORY REPORTING WITH IDENTIFICATION OF EPA DEFINED HAZARD CLASSES. THE HAZARD CLASSES FOR THIS PRODUCT ARE: PRESSURE: YES. FLAMMABL E: YES.

Federal Regulatory Information: CERCLA: NO

REPORTABLE QUANTITY. OXYGEN

IS LISTED ON THE TSCA INVENTORY.

State Regulatory Information:CALIFORNIA: PROPOSITION 65: THIS PRODUCT DOES NOT CONTAIN ANY LISTED SUBSTANCES FOR WHICH THE STATE OF CALIFORNIA REQUIRES WARNING UNDER THIS STATUTE.

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