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

1660-00-806-0569

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

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

MSDS Date:06/01/1990

FSC:1660

NIIN:00-806-0569 MSDS Number: BRLYT

=== Responsible Party ===

Company Name: AIR PRODUCTS AND CHEMICALS INC.

Address:7201 HAMILTON BLVD

City:ALLENTOWN

State:PA

ZIP:18195-1501

Country:US

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nfo Phone Num:215-481-4911

Emergency Phone Num:215-481-4911 OR 800-523-9374

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: LITTON SYSTEMS INC INSTRUMENTS & LIFE SUPPORT DIV

Address:2734 HICORY GROVE RD

Box:4508

City:DAVENPORT

State:IA

ZIP:52808-4508 Country:US

Phone:319-383-6000

CAGE:99251

====== Composition/I

nformation on Ingredients =======
Ingred Name:OXYGEN CAS:7782-44-7 RTECS #:RS2060000
========== Hazards Identification ===========
LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER. Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:OXYGEN IS NON TOXIC UNDER MOST CONDITIONS OF USE AND IS NECESSARY TO SUPPORT LIFE. LIQUID OXYGEN OR COLD GAS WILL FREEZE TISSUES AND CAN CAUSE SEVERE CRYOGENIC BURNS. BREATHING OF PURE OXY GEN AT 60% M AY PRODUCE COUGH & CHEST PAIN, CNS MANIFESTATIONS. INFANTS EXPOSED TO 35-40% OXYGEN MAY SUFFER PERMANENT VISUAL DAMAGE. Effects of Overexposure:WHEN EXPOSED TO 60% OXYGEN, SYMPTOMS INCLUDE COUGHING AND CHEST PAIN. THESE SYMPTOMS MAY BE SEEN IN SEVERAL DAYS. AT TWO ATMOSPHERES SYMPTOMS OCCUR IN 2-3 HOURS. INFANTS EXPOSED TO OXYGEN LEVELS IN EX CESS OF 35-40% MAY SUFFER PERNAMENT VISUAL IMPAIRMENT OR BLINDNESS. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.
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First Aid:IF CRYOGENIC LIQUID OR COLD BOIL-OFF GAS CONTACTS A WORKER'S SKIN OR EYES, FROZEN TISSUES SHOULD BE FLOODED OR SOAKED WITH TEPID WATER (105-115F; 41-46C). DO NOT USE HOT WATER. BURNS WHICH RESULT IN B LISTERING OR DEEPER TISSUE FREEZING SHOULD BE SEEN PROMPTLY BY A PHYSICIAN.
============ Fire Fighting Measures =============
Flash Point:NONE Extinguishing Media: NONE SPECIFIED BY MANUFACTURER. Fire Fighting Procedures:OXYGEN IS NONFLAMMABLE, BUT SUPPORTS AND VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES. TO FIGHT FIRES, SHUT OFF SOURCES OF OXYGEN AND FIGHT FIRE. Unusual Fire/Explosion Hazard:OXYGEN SUPPORTS AND VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES. SOME MATERIALS WHICH ARE NONCOMBUSTIBLE IN AIR WILL BURN IN THE PRESENCE OF OXYGEN.
======== Accidental Release Measures =========
Spill Release Procedures:

PREVENT LIQUID OXYGEN FROM CONTACTING GREASE, OIL AND OTHER COMBUSTIBLES. VENTILATE AREA TO DISPERSE OXYGEN. AVOID SMOKING, EVACUATE ALL PERSONNEL FROM RELEASE AREA. DO NOT ENTER AREAS OF HIGH OXYGEN CONCENTRATION, WHICH CAN SATURATE CLOTHING. Neutralizing Agent: NOT APPLICABLE. =========== Handling and Storage ============================ Handling and Storage Precautions: PREVENT CONTACT OF LIQUID OXYGEN WITH EXPOSED SKIN. PREVENT ENTRAPMENT OF LIQUID IN CLOSED SYSTEM. USE ONLY IN WELL VENTILATED AREAS. Other Precautions: SECURE CYLINDERS WHEN NOT IN USE. AVOID DRAGGING, ROLLING, OR SLIDING CYLINDERS, EVEN FOR SHORT DISTANCE. USE A SUITABLE HAND TRUCK. ====== Exposure Controls/Personal Protection ======== Respiratory Protection: NONE SPECIFIED BY MANUFACTURER. Ventilation: PREVENT ACCUMULATION WITH NATURAL OR FORCED AIR. USE VENTILATION AS NECESSARY. Protective Gloves:LEATHER GLOVES FOR HANDLING CYLINDERS. Eye Protection: CHEMICAL GOGGLES OR SAFETY GLASSES. Other Protective Equipment: SAFETY SHOES Work Hygienic Practices: OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. Supplemental Safety and Health OXYGEN IS NOT TO BE USED AS A SUBSTITUTE FOR COMPRESSED AIR. ======== Physical/Chemical Properties ============ HCC:G4 Boiling Pt:B.P. Text:-297F,-183C Vapor Density:0.08279 Spec Gravity:1.14 Solubility in Water:MODERATE Appearance and Odor: GASEOUS OXYGEN IS COLORLESS AND ODORLESS.LIQU ID **OXYGEN IS PALE BLUE AND ODORLES** Percent Volatiles by Volume:100 ======== Stability and Reactivity Data ========== Stability Indicator/Materials to Avoid:YES ALL FLAMMABLES, ESPICALLY PETROLEUM PRODUCTS, ASPHALT, OTHER VOLATILE FLAMMABLES. Stability Condition to Avoid:MATERIALS WHICH BURN IN AIR WILL BURN VIOLENTLY IN ATMOSPHERE RICHER THAN APPROX. 25% OXYGEN. Hazardous Decomposition Products: NONE SPECIFIED BY MANUFACTURER. ====== Disposal Consid

particular situation.

Waste Disposal Methods:ALLOW LIQUID OXYGEN TO EVAPORATE IN A WELL VENTILATED OUTDOOR AREA. VENT OXYGEN GAS TO OUTSIDE LOCATION. DISPOSAL SITE SHOULD BE REMOTE FROM WORK AREAS, OPEN FLAMES OR SOURCES OF IGNITION AND COMBUSTI BLES. RETURN CYLINDERS TO AIR PRODUCTS.

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