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AIR PRODUCTS AND CHEMICALS INC. -- OXYGEN, LOX (LIQUID ONLY), GOX (GAS ONLY) -- 1660-00-806-0569

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 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

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.

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.

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.

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 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.

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.

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 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.

erations ================

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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