

OXYGEN, LOX (LIQUID ONLY), GOX (GAS ONLY)

MSDS Number

BHDBB

National Stock Number

6830-00-169-0804

Product Name

OXYGEN, LOX (LIQUID ONLY), GOX (GAS ONLY)

Manufacturer

AIR PRODUCTS AND CHEMICALS INC

Product Identification

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

MSDS Date:11/18/1987

FSC:6830

NIIN:00-169-0804

MSDS Number: BHDBB

Responsible Party

AIR PRODUCTS AND CHEMICALS, INC.

NA

ALLENTOWN , PA 18195

US

Emergency Phone: 1-800-322-9092

Info Phone: 215-481-4911

Cage: 00742

Contractor

OXYGEN SALES AND SERVICE INC

11393

TACOMA, WA 98411-0393

US

800-345-3148/ 800-752-1597

Cage: 5H199

Ingredients

OXYGEN, LOX (LIQUID ONLY), GOX (GAS ONLY)

CAS: 7782-44-7

RTECS: RS2060000

Hazards

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 1 ATMOSPHERE

MAY PRODUCE COUGH/CHEST PAIN W/IN 8-24HRS.CONCNR OF 60% MAY

PRODUCE SYMPTOMS IN SEVERAL DAYS. AT 2 ATMOSPHERS SYMPTOMS OCCUR

IN 2-3 HRS.PARTL PRESS. OF OXYGEN EXCESS OF 2 ATMOSPHERES MAY

PROD. VARITYOF CENTL NERVOUS SYS. MANIFESTATIONS,TINGLING OF

FINGERS,TOES,VISL/HEARNG DISTBR

Explanation of Carcinogenicity:NA

Effects of Overexposure:OXYGEN IS NONTOXIC UNDER MOST CONDITIONS OF USE

& IS NECESSARY TO SUPPORT LIFE. LIQUID OXYGEN OR COLD GAS WILL

FREEZE TISSUES AND CAN CAUSE SEVERE CRYOGENIC (EXTREMELY LOW

TEMPERATURES) BURNS.

First Aid

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 BLISTERING OR DEEPER TISSUE FREEZINGSHOULD BE SEEN PROMPTLY BY A PHYSICIAN.

Fire Fighting

Flash Point:NA

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:NA

Fire Fighting Procedures:OXYGEN IS NONFLAMMABLE,BUT SUPPORTS & VIGOROUSLY ACCELERATES COMBUSTION OF FLAM MABLES. TO FIGHT FIRES,SHUTOFF SOURCES OF OXYGEN & FIGHT LIKE CONVENTIONAL FIRES
Unusual Fire/Explosion Hazard:OXYGEN IS NONFLAMMABLE,BUT SUPPORTS & VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES. SOME MATL WHICH ARE NONCOMBUSTIBLE IN AIR BURN IN PRESENCE OF OXYGEN.

Accidental Release

Spill Release Procedures:PREVENT LIQUID OXYGEN FROM CONTACTING GREASE,OIL, ASPHALT OR COMBUSTIBLES. VENTILATE AREA TO EVAPOR ATE & DISPERSE OXYGEN. FLUSH AREA W/LG QTY OF WTR.DO NOT ENTER AREA W/HIGH OXYGEN CONCENT. W/CAN SATURATE CLOTHING & INCREASE FLAMMABILITY.

Handling

Handling and Storage Precautions:USE SUITABLE HNDTRUCK. USE CHECK VALVE TO PREVENT BACK FLOW INTO CONTAINER.KEEP CYLINDER AWAY FROM SOURCE OF HEAT.STRG AREA SHOULD BE FREE OF COMBUST
Other Precautions:STORE LIQUID CONTAINERS/CYLINDERS IN WELL VENTILATED AREAS. DONOT STORE CYLINDEROF OXYGEN W/IN 20FT. OF FLAMMABLE/COMBUSTIBLE MATL.,ESPECIALLY GREASE OR OIL. OXYGEN IS NOT TO BE USED AS A SUBSTITUTE FOR COMPRESSED AIR.

Exposure Controls

Respiratory Protection:NA

Ventilation:NATURAL OR FORCED AIR. VENTS SHOULD BE SITUATED TO AVOID HIGHER THAN NORMAL CONCENTRATION OF OXYGEN IN WORK AREAS.

Protective Gloves:LOOSE FITTING GLVS - IMPERMEABLE LEATHER

Eye Protection:CHEMICAL GOGGLES/SAFETY GLASSES

Other Protective Equipment:NA

Supplemental Safety and Health

NK

Chemical Properties

Boiling Pt:B.P. Text:-297.3F

Vapor Pres:NA

Vapor Density:***

Spec Gravity:***

Solubility in Water:1ATM 3.16% BY VOLUME

Appearance and Odor:GASEOUS OXYGEN IS COLORLESS AND ODORLESS. LIQUID OXYGEN IS PALE BLUE & ODORLESS

Stability

Stability Indicator/Materials to Avoid:YES

ALL FLAMMABLES, ESPECIALLY PETROLEUM PRODUCTS, ASPHALT, OTHER VOLATILE FLAMMABLES.

Stability Condition to Avoid:MATL W/BURN IN AIR W/BURN VIOLENTLY IN ATMOSPHERE >APPRX.25%OXYGEN.SOME MATL W/BURN PURE OXYGEN W/IS NONFLAMMABLE IN AIR

Hazardous Decomposition Products:NONE

Conditions to Avoid Polymerization:**SPECIFIC GRAVITY AIR:1 ATM 1.10;
GAS BOILING PT. 1 ATM1.14**VAPOR DENSITY GAS:1 ATM 0.08309; LIQUID 1 ATM 71.21

Disposal

Waste Disposal Methods:ALLOW LIQ OXYGEN TO EVAPORATE IN A WELL VENTILATEDOUTDOOR AREA. VENT OXYGEN GAS TO OUTSIDE LOCATION.FLUSHING W/WTR WILL INCREASE VAPORIZATION RATE OF LIQ. DONOT ATTEMPT TO DISPOSE OF RESIDUAL OXYGEN IN COMPRESSED GAS CYLINDERS.

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