

OXYGEN, LOX (LIQUID ONLY)

MSDS Number

BHDHZ

National Stock Number

6830-00-290-4290

Product Name

OXYGEN, LOX (LIQUID ONLY)

Manufacturer

AIR PRODUCTS AND CHEMICALS INC

Product Identification

Product ID:OXYGEN, LOX (LIQUID ONLY)

MSDS Date:11/18/1987

FSC:6830

NIIN:00-290-4290

MSDS Number: BHDHZ

Responsible Party

AIR PRODUCTS AND CHEMICALS, INC.

2043 S 35TH ST

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)

CAS: 7782-44-7

RTECS: RS2060000

Hazards

Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:OXYGEN IS NONTOXIC UNDER MOST CONDITIONS OF USE AND IS NECESSARY TO SUPPORT LIFELIQUID OXYGEN OR COLD GAS WILL FREEZE TISSUES AND CAN CAUSE SEVERE CRYOGENIC (EXTREMELY LOW TEMPERATURE) BURNS.

Effects of Overexposure:OXYGEN IS NONTOXIC UNDER MOST CONDITIONS OF USE AND IS NECESSARY TO SUPPORT LIFELIQUID OXYGEN OR COLD GAS WILL FREEZE TISSUES AND CAN CAUSE SEVERE CRYOGENIC (EXTREMELY LOW TEMPERATURE) BURNS.

First Aid

First Aid:PARTIAL PRESSURE OF OXY IN EXCESS OF TWO ATMOS. MAY PRODUCE A VARIETY OF CENTRALNERVOUS SYSTEM MANIFESTATIONS INCLUDING TINGLING OF FINGERS & TOES, VISUAL AND HEARING DISTURBANCES,ABNORMAL SENSATIONS ,IMPAIRED COORDINATION,CONFUSION, MUSCLETWITCHING, & SEIZURES RESEMBLING THOSE OF EPILEPSY. INFANTS EXPOSED TO OXYGEN LEVELS IN EXCESS OF 35-40% MAY SUFFER PERM. VISUAL IMPAIRMENT OR BLINDNESS.

Fire Fighting

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

Unusual Fire/Explosion Hazard:OXYGEN IS NONFLAMMABLE BUT SUPPORTS & VIGOROUSLY ACCELERATES COMBUSTION OF FLAM-MABLES.SOME MATERIALS WHICH ARE NONCOMBUSTIBLE IN AIR WILL BURN IN OXYGEN.

Accidental Release

Spill Release Procedures:PREVENT LIQ OXY FROM CONTACTING GREASE,OIL,ASPHALTOR COMBUSTIBLES. VENTILATE AREA TO EVAPORATE & DIS-PERSE OXY.FLUSH AREA WITH LARGE QUANTITIES OFWATERAVOID SMOKING & CONTACT WITH SOURCES OF IGNITION AFTER EXPOSURE TO CONCENTRATION OF HIGHLEVEL OXY.

Handling

Handling and Storage Precautions:STORE/USE IN WELL VENTILATED AREAS. SEGREGATE FULL& EMPTY CYL. KEEP CYLINDERS AWAY FROM SOURCES OF HEAT. STORE AWAY FROM COMBUSTIBLE MATERIALS.

Other Precautions:USE ONLY WITH EQUIP SPECIFICALLY DESIGNED AND CLEANED FOR OXY SERVICE. OXYGEN ISNOT TO BE USED AS SUB FOR COMPRESSED AIR. COMPRESSED GAS CYLINDERS SHOULD NOT BEREILLED EXCEPT BY QUALIFIED PRODUCERS O F COMPRESSED GASES.

Exposure Controls

Ventilation:PREVENT ACCUMULATION WITH NATURAL OR FORCED AIR.

Protective Gloves:LEATHER ARE SUGGESTED FOR LIQ & GAS.

Eye Protection:CHEMICAL GOGGLES OR SAFETY GLASSES.

Supplemental Safety and Health

VENTS SHOULD BE SITUATED TO AVOID HIGHER THAN NORMAL CONCENTRATIONS OF OXYGEN INWORK AREAS. BREATHING PURE OXY AT ONE ATMOS MAY PRODUCE COUGH AND CHEST PAINS WITHIN 8-24 HOURS. CONCENTRATIONS OF 60% MAY PRODUCE THESE SYMPTOMS IN SEVERALDAYS. AT TWO ATMOSPHERES SYMPTOMS OCCUR IN 2-3 HOURS.

Chemical Properties

Boiling Pt:B.P. Text:-297F/-183C

Vapor Density:*SEE BELOW

Spec Gravity:68F20C,1ATM1.10

Solubility in Water:77F25C1ATM3.16%BYVOL

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

Stability

Stability Indicator/Materials to Avoid:YES

ALL FLAMMABLES, EXPECIALLY PETROLEUM PRODUCTS, ASPHALT,OTHERVOLATILE FLAMMABLES.

Stability Condition to Avoid:MATERIALS WHICH BURN IN AIR WILL BURN VIOLENTLY IN ATMOSPHERRICHER THAN APPROX. 25% OXY.SOME BURN IN OXY BUT NOT AIR.

Hazardous Decomposition Products:NK *VAP DENS: @ 68F/20C, 1 ATM 0.08309

Disposal

Waste Disposal Methods:ALLOW LIQ OXY TO EVAP IN WELL VENTILATED OUTDOOR AREA.DISPOSAL SITE SHOULD BE REMOTE FROM WORK AREAOPEN FLAMES OR SOURCES OF IGNITION & COMBUSTIBLES.FLUSHING WITH WATER WILL INCREASE VAPORIZATION RATE OF LIQ.DO NOT ATTEMPT DISPOSAL RESIDUAL OXY.

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