

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

MSDS Number

BHDVW

National Stock Number

6830-00-765-7561

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:00-765-7561

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Responsible Party

AIR PRODUCTS AND CHEMICALS, INC.

2043 S 35TH ST

TACOMA , WA 98411-0393

US

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:NO

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

Health Hazards Acute and Chronic:OXY NONTOXIC UNDER MOST COND. LIQ OXY OR COLD GAS WILL CAUSE SEVERE CRYOGENIC BURNS.BREATHING PURE OXY AT ONE ATMOS. MAY PRODUCE COUGH & CHEST PAINS W/IN 8-24HRS. INFANTS EXPOSED TO OXY LEVELS IN EX CESS OF 35-40% MAY SUFFER PERM. VISUALIMPAIRMENT OR BLINDNESS DUE TO RETROLENTAL FIBROPLASIA.

Effects of Overexposure:PARTIAL PRESSURE OF OXY IN EXCESS OF TWO ATMOS. MAY PRODUCE A VARIETY OF CENTRALNERVOUS SYS. MANIFESTATIONS INCLUDING TINGLING OF FINGERS & TOES, VISUAL & HEAR-ING DISTURANCES, ABNORMAL SENSATIONS, IM PAIRED COORDINATION, CONFUSION, MUSCLETWITCHING, & SEIZURES. SEVERE SYMPTOMS MAY LEAD TO OPERATIONAL JUDGEMENT ERRORS.

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 (105-115°F; 41-46°C). DO NOT USE HOT WATER. BURNS WHICH RESULT IN BLISTERING OR DEEPER TISSUE FREEZING SHOULD BE SEEN PROMPTLY BY A PHYSICIAN.

Fire Fighting

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

Unusual Fire/Explosion Hazard: OXY IS NONFLAMMABLE, BUT SUPPORTS & VIGOROUSLY ACCELERATES COMBUSTION OF FLAMMABLES. SOME MATERIALS WHICH ARE NONCOMBUSTIBLE IN AIR WILL BURN IN THE PRESENCE OF OXY.

Accidental Release

Spill Release Procedures: PREVENT LIQ OXY FROM CONTACTING GREASE, OIL, ASPHALT OR COMBUSTIBLES, VENT AREA TO EVAP & DISPERSE OXY. FLUSH AREA WITH LRG QTY OF WATER. DO NOT ENTER AREA OF HIGH OXY CONCENTRATION. AVOID CONTACT WITH SOURCE OF IGNITION AFTER EXPOSURE TO HIGH CONCENT. OF OXY

Handling

Handling and Storage Precautions: SEGREGATE FULL & EMPTY CYLINDERS. AVOID EXPOSURE TO SALT & OTHER CORROSIVE CHEM. SEE CGA PAMP P-1. PREVENT ENTRAPMENT OF LIQUID IN CLOSED SYSTEMS.

Other Precautions: OXY IS NOT TO BE USED AS A SUB FOR COMPRESSED AIR. APPLICATIONS SUCH AS CLEANING, DUSTING, POWERING PNEUMATIC TOOLS, ETC. ARE NOT SAFE DUE TO LUBRICATING OILS & OTHER MAT. PRESENT. USE ONLY W/EQUIP SPECIFICALLY DESIGNED & CLEANED FOR OXY SERVICE

Exposure Controls

Ventilation: PREVENT ACCUMULATION WITH NATURAL OR FORCED AIR.

Protective Gloves: (LIQ) LOOSE FITTING LEATHER; (GAS) LEATHER

Eye Protection: CHEMICAL GOGGLES OR SAFETY GLASSES

Supplemental Safety and Health

VENTS SHOULD BE SITUATED TO AVOID HIGHER THAN NORMAL CONCENTRATION OF OXYGEN IN WORK AREAS.

Chemical Properties

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

Vapor Density: *SEE BELOW

Spec Gravity: 68°F 20°C, 1 ATM 1.1

Solubility in Water: 77°F 25°C 1 ATM 3.16% BY VOL

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: MAT. WHICH BURN IN AIR WILL BURN VIOLENTLY IN ATMOS. RICHER THAN APPROX. 25% OXY. SOME MAT. WILL BURN IN PURE OXY. NOT AIR

Hazardous Decomposition Products: NONE

*VAPOR DENSITY: @ 68°F (20°C), 1 ATM .08309

Disposal

Waste Disposal Methods: ALLOW LIQ OXY TO EVAP. IN WELL VENTILATED OUTDOOR AREA/LOCATION. FLUSHING WITH WATER WILL INCREASE VAPORIZATION RATE OF LIQ. DO NOT DISPOSE OF RESIDUE OXY IN COMPRESSED GAS CYLINDERS. KEEP LIQUID OXYGEN AWAY FROM SOURCES OF IGNITION & COMBUSTIBLES.

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