

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

Product ID:OXYGEN,REFRIGERATED LIQUID

MSDS Date:03/30/1995

FSC:8120

NIIN:00-253-5976

MSDS Number: BYNYB

=== Responsible Party ===

Company Name:AIRCO INC AIRCO INDUSTRIAL GASES DIV

Address:575 MOUNTAIN AVENUE

City:MURRAY HILL

State:NJ

ZIP:07974-2006

Country:US

Info Phone Num:908-464-8100

Emergency Phone Num:908-464-8100

CAGE:83956

=== Contra

ctor Identification ===

Company Name:AIRCO INC AIRCO WELDING PRODUCTS DIV

Address:5600 BICKETT ST

City:VERNON

State:CA

ZIP:90058-3606

Country:US

CAGE:83956

Company Name:AIRCO INC, AIRCO INDUSTRIAL GASES DIV.

Address:575 MOUNTAIN AVE

Box:City:MURRAY HILL

State:NJ

ZIP:07974-2006

Country:US

Phone:800-424-9300(CHEMTREC)

CAGE:00741

===== Composition/Information on Ingredients =====

Ingred Name:OXYGEN (GAS)

CAS:7782-44-7

RTECS #:RS2060000

Fraction by Wt: 100%

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Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:NO Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES/SKIN/INGESTION: LIQUID MAY CAUSE
TISSUE FREEZING. INHALATION: HIGH CONCENTRATIONS OF OXYGEN (>75%)
CAUSES HYPEROXIA WHICH MAY LEAD TO HYPOTHERMIA, AMBLYOPIA,
BRADYCORDIA. OXYGEN CONCENTRATION BET WEEN 20-95% HAVE PRODUCED
GENETIC CHANGES IN MAMMALIAN CELL ASSAY TEST SYSTEMS.

Explanation o
f Carcinogenicity:NONE
Effects of Overexposure:COUGH, CRAMPS, NAUSEA, DIZZINESS, RESPIRATION
DIFFICULTIES, FAINTING SPELLS CONVULSIONS, INFLAMMATION, FREEZE
BURNS.

===== First Aid Measures =====

First Aid:EYES: NEVER INTRODUCE OINTMENT/OIL W/O MEDICAL ADVICE. IN
CASE OF FREEZING/CRYOGENIC BURNS, DON'T WASH W/HOT/EVEN TEPID
WATER. REMOVE FROM SOURCE. OPEN EYELIDS WIDE TO ALLOW LIQUID TO
EVAPORATE. IF VI CTIM CAN'T TOLERATE LIGHT, PROTECT
W/A LIGHT
BANDAGE. SKIN: FLUSH W/LUKE WARM WATER. DON'T USE HOT WATER.
INHALATION: RESCUE PERSONNEL SHOULD BE EQUIPPED W/SCBA. REMOVE TO
FRESH AIR. (SEE SUPP)

===== Fire Fighting Measures =====

Flash Point:NONE
Lower Limits:NONE
Upper Limits:NONE
Extinguishing Media:EXTINGUISHING AGENT APPROPRIATE FOR THE COMBUSTIBLE
MATERIAL.
Fire Fighting Procedures:USE WATER SPRAY TO KEEP CYLINDERS COOL. IF
POSSIBLE, STOP THE FLOW OF OXYGEN WHICH IS SUP
PORTING THE FIRE. USE
APPROPRIATE PROTECTIVE EQUIPMENT.
Unusual Fire/Explosion Hazard:NONFLAMMABLE. OXIDIZER WILL ACCELERATE
COMBUSTION.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE AREA. USE APPROPRIATE PROTECTIVE
EQUIPMENT. IF LEAK IS IN USERS EQUIPMENT, BE CERTAIN TO PURGE
PIPING W/INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IS IN
CONTAINER/CONTAINER VALVE, CONTACT THE COMPANY OF THIS PRODUCT.

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===== Handling and Storage =====

Handling and Storage Precautions:LIQUID OXYGEN CAN'T BE HANDLED IN CARBON/LOW ALLOY STEEL. 18-8 & 18-10 STAINLESS STEEL ARE ACCEPTABLE AS ARE COPPER & IT'S ALLOYS.(SEE SUPP)

Other Precautions:TEFLON & ITS COMPOSITS/KEL-F ARE PREFERRED NON-METALLIC GASKET MATERIALS. DON'T ATTEMPT TO REPAIR, ADJUST/MODIFY THESE VESSELS. NO SMOKING/OPEN FLAMES SHOULD BE ALLOWED NEAR THESE VESSELS. CYLINDERS M UST BE KEPT UPRIGHT. (SEE SUPP)

===== Exposure Controls/Personal Protection =====

Respiratory Protection:WEAR SCBA.

Ventilation:LOCAL EXHAUST TO PREVENT ACCUMULATION OF HIGH CONCENTRATIONS THAT INCREASE THE OXYGEN LEVEL IN AIR TO MORE THAN 25%.

Protective Gloves:PROTECTIVE/INSULATED

Eye Protection:SAFETY GOGGLES/GLASSES/FACESHIELD

Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER.

Work Hygienic Practices:REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

FIRS

T AID: TREAT SYMPTOMATICALLY & SUPPORTIVELY. OBTAIN MEDICAL ATTENTION IN ALL CASES. STORAGE CONT'D: NICKEL & IT'S ALLOYS, BRASS, BRONZE, SILICON ALLOYS, MONEL, INCONEL & BERYLLIUM. PREC: FULL & EM PTY CYLINDERS SHOULD BE STORED AWAY FROM FLAMMABLE PRODUCTS.

===== Physical/Chemical Properties =====

Boiling Pt:B.P. Text:-297.3

Melt/Freeze Pt:M.P/F.P Text:-361.8F

Vapor Density:1.11

Spec Gravity:1.105

Solubility in Water:SLIGHT

Appearance and Odor:CLEAR

PALE BLUE CRYOGENIC LIQUID, ODORLESS

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ALL FLAMMABLE MATERIALS

Hazardous Decomposition Products:NONE

===== Disposal Considerations =====

Waste Disposal Methods:DON'T DISPOSE OF RESIDUAL WASTE/UNUSED QUANTITIES. RETURN SHIPPING CONTAINER PROPERLY LABELED W/VALVE OUTLET PLUGS/CAPS SECURED & VALVE PROTECTION CAP IN PLACE TO BOC GASES/DISTRIBUTO

R FOR DISPOSAL IA W/FEDERAL, STATE & LOCAL
REGULATION. UN1073.

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