

AMERIGAS INC INDUSTRIAL GASES DIV -- OXYGEN (GAS OR LIQUIFIED) -- 6505-00-132-5181

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

Product ID:OXYGEN (GAS OR LIQUIFIED)

MSDS Date:11/25/1985

FSC:6505

NIIN:00-132-5181

MSDS Number: BJSDD

=== Responsible Party ===

Company Name:AMERIGAS INC INDUSTRIAL GASES DIV

Address:LEIGHTON BLDG

Box:965

City:VALLEY FORGE

State:PA

ZIP:19481

Country:US

Info Phone Num:215-337-8900

Emergency Phone Num:215-337-8900

CAGE:2W147

=== Contractor Identification ===

Company Name:AMERIGAS INC INDUSTRIAL GASES DIV

Address:LEIGHTON BLDG

Box:965

City:VALLEY FORGE

State:PA

ZIP:19481

Country:US

Phone:215-337-7000

CAGE:2W147

Company Name:GENERAL FIRE EXTINGUISHER CORP

Address:1685 SHERMER RD

Box:City:NORTHBROOK

State:IL

ZIP:60062-5315

Country:US

Phone:(708) 847-272-7500; 847-272-7500

CAGE:99539

Company Name:NATIONAL WELDERS SUPPLY CO INC

Address:3450 VIRGINIA BEACH BLVD

Box:City:NORFOL

K
State:VA
ZIP:23502
Country:US
Phone:804-857-5301
CAGE:0P9Y1

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Composition/Information on Ingredients
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Ingred Name:OXYGEN
CAS:7782-44-7
RTECS #:RS2060000
Fraction by Wt: 100%
Other REC Limits:NONE SPECIFIED

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Hazards Identification
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Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:HEALTH HAZARDS-ACUTE:INHALATION OF
HIGH CONCENTRA
TIONS (>75%) CAUSES SYMPTOMS OF HYPEROXIA WHICH LEADS
TO PNEUMONIA. CONCENTRATIONS 25-75% MAY CAUSE INFLAMMATION OF
ORGANIC MATTER IN THE BODY.CONTACT WITH THE CRYOGENIC LIQUID OR
COLD PIPING CAN CAUSE TISSUE FREEZING OR FROSTBITE. CHRONIC:NONE
SPECIFIED BY MANUFACTURER.
Effects of Overexposure:INHALATION OF HIGH CONCENTRATIONS MAY CAUSE
CRAMPS, NAUSEA, DIZZINESS, HYPOTHERMIA, AMBYLOPIA, RESPIRATORY
DIFFICULTIES, BRADYCARDIA, FAINTING SPELLS, CONVULSIONS CAPABLE OF
LE
ADING TO DEATH. INHALATI ON OF LOWER CONCENTRATIONS MAY PRESENT A
RISK OF INFLAMMATION OF ORGANIC MATTER IN THE BODY.
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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First Aid Measures
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First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF
OVEREXPOSURE TO OXYGEN. RESCUE PERSONNEL SHOULD BE EQUIPPED WITH
SELF-CONTAINED BREATHING APPARATUS. VICTIMS SHOULD BE ASSISTED TO
AN UNCONTAMINATED AREA AND INHA

LE FRESH AIR. GIVE CPR OR SUPPLEMENTAL OXYGEN IF NEEDED. IN CASE OF LIQUID CONTACT, FLUSH AFFECTED AREA WITH LUKEWARM WATER. DO NOT USE HOT WATER! SEE DOCTOR IMMEDIATELY.

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Fire Fighting Measures
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Extinguishing Media:LARGE AMOUNTS OF WATER FOR FIRES WITH OXYGEN AS THE OXIDIZER.

Fire Fighting Procedures:IF POSSIBLE STOP THE FLOW OF OXYGEN WHICH IS SUPPORTING THE FIRE.

Unusual Fire/Explosion Hazard:OXYGEN VIGOROUSLY ACCELERATES COMBUSTION.

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Accidental Release Measures
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Spill Release Procedures:EVACUATE PERSONNEL. VENTILATE AREA. ATTEMPT TO STOP RELEASE IF SAFE T

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Handling and Storage
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Handling and Storage Precautions:SECURE CYLINDERS WHEN IN USE. CYLINDERS SHOULD BE STORED UPRIGHT. AVOID DRAGGING,ROLLING,SLIDING OR DROPPING CYLINDERS. USE SPECIALIZED HAND TRUCK.

Other Precautions:STORE AWAY FROM HEAVY TRAFFIC AND COMBUSTIBLE

MATERIALS. KEEP AWAY FROM HEAT SOURCES, SALT AND CORROSIVE CHEMICALS. USE FIRST IN-FIRST OUT INVENTORY SYSTEM. NO SMOKING OR OPEN FLAMES NEAR CYLINDER. USE ONLY IN WELL VENTILATED AREAS.

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Exposure Controls/Personal Protection
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Respiratory Protection:NONE.

Ventilation:LOCAL EXHAUST.

Protective Gloves:LOOSE FITTING, INSULATED.

Eye Protection:SAFETY GOGGLES OR GLASSES & FACESHIELD.

Other Protective Equipment:SAFETY SHOES AND SAFETY SHOWER.

Work Hygienic Pra

ctices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

MANUFACTURER STATES, MOST OF THE DATA IN THE MSDS IS FOR GASEOUS OXYGEN. ONE VOLUME OF LIQUID OXYGEN AT ITS BOILING POINT AND ATMOSPHERIC PRESSUR WILL VAPORIZE INTO APPROXIMATELY 860 VOLUMES OF GASEOUS OXYGEN .

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Physical/Chemical Properties
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HCC:G4

Boiling Pt:B.P. Text:-297F,-147C

Melt/Freeze Pt:M.P/F.P Text:-362F,-219C

Vapor Density:1.10

Spec Gravity:1.11

Solubility in Wat

er:SLIGHT

Appearance and Odor:COLORLESS, ODORLESS GAS. LIQUID IS CLEAR, PALE BLUE AND ODORLESS.

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

Stability Indicator/Materials to Avoid:YES

AVOID ALL FLAMMABLE MATERIALS, INCLUDING OILS AND GREASES.

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:DO NOT AT

TEMPT TO DISPOSE OF RESIDUAL OXYGEN IN

COMPRESSED GAS CYLINDERS. RETURN TO MANUFACTURER WITH THE CYLINDER VALVE TIGHTLY CLOSED, POSITIVE PRESSURE IN THE CYLINDER, AND VALVE CAP IN PLACE.

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