

1-030

AIRGAS -- OXYGEN; OXYGEN COMPRESSED -- 6830-00-286-8684

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

Product ID:OXYGEN; OXYGEN COMPRESSED

MSDS Date:05/01/1990

FSC:6830

NIIN:00-286-8684

MSDS Number: CCLQQ

=== Responsible Party ===

Company Name:AIRGAS

Address:100 MATSONFORD ROAD

City:RADNOR

State:PA

ZIP:19087

Country:US

Info Phone Num:215-687-5253

Emergency Phone Num:215-687-5253

CAGE:AIRGA

=== Contractor Identification ===

Company Name:AIRGAS

Address:100 MATSONFORD ROAD, 5 RADNOR CORP CNTR

City:RADNOR

State:PA

ZIP:19087

Country:US

Phone:215-687-5253

CAGE:AIRGA

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

Ingred Name:OXYGEN

CAS:7782-44-7

RTECS #:RS2060000

Other REC Limits:NONE RECOMMENDED

Ingred Name:INERT MATERIALS

Fraction by Wt: <1.0%

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:NOT GIVEN

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

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

Health Hazards Acute and Chronic:THE PROPERTY IS THAT OF HYPEROXIA, WHICH LEADS TO PNEUMONIA. CONCENTRATIONS BETWEEN 25 & 75 MOLAR PERCENT PRESENT A RISK OF INFLAMMATION OF ORGANIC MATTER IN THE BODY.

Explanation of Carcinogenicity:THIS COMPOUND CONTAINS NO INGREDIENTS AT CONCENTRATIONS OF 0.1% OR GREATER THAT ARE CARCINOGENS OR SUSPECT CARCINOGENS.

Effects of Overexposure:BREATHING HIGH CONCENTRATIONS (>75 MOLAR PERCENT) CAUSES SYMPTOMS OF HYPEROXIA WHICH INCLUDES CRAMPS, NAUSEA, DIZZINESS, HYPOTHERMIA, AMBLYOPIA, RESPIRATORY DIFFICULTIES, BRADYCARDIA, FAINTING SPELLS, AND CONVULSIONS CAPABLE OF LEADING TO DEATH. FOR ADDITIONAL INFORMATION, SEE COMPRESSED GAS ASSOCIATION PAMPHLET P-14.

Medical Cond Aggravated by Exposure:PERSONS IN ILL HEALTH WHERE SUCH

ILLNESS WOULD BE AGGRAVATED BY EXPOSURE TO OXYGEN SHOULD NOT BE ALLOWED TO WORK WITH OR HANDLE THIS PRODUCT.

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

First Aid:PROMPT MED AID MANDATORY. BE COGNIZANT OF EXTREME FIRE HAZARD ASSOCIATED WITH OXYGEN RICH ATMOSPHERES. ASSIST CONSCIOUS PERSONS TO UNCONTAMINATED AREA AND BREATHE FRESH AIR. KEEP WARM & QUIET. INFORM D R THAT VICTIM EXPERIENCING HYPEROXIA. MOVE UNCONSCIOUS PERSON TO UNCONTAMINATED AREA & GIVE ASSISTED RESP. WHEN BREATH RESTORED, TREAT AS ABOVE. CONTINUED TREATMENT SHOULD BE SYMPTOMATIC & SUPPORTIVE.

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

Flash Point:NONFLAMMABLE
 Lower Limits:NOT GIVEN
 Upper Limits:NOT GIVEN
 Extinguishing Media:COPIOUS QUANTITIES 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:VIGOROUSLY ACCELERATES COMBUSTION. IF CYLINDERS ARE INVOLVED IN A FIRE, SAFELY RELOCATE OR KEEP COOL WITH WATER SPRAY.

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

Spill Release Procedures:EVACUATE PERSONNEL FROM AFFECTED AREA. USE PROTECTIVE EQUIP. IF LEAK IN USER'S EQUIP, BE CERTAIN TO PURGE PIPING W/ INERT GAS PRIOR TO ATTEMPTING REPAIRS. IF LEAK IN CONTAINER OR CONTAINER VALVE, CONTACT YOUR CLOSEST SUPPLIER LOCATION OR CALL EMERG #
 Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:USE IN VENTED AREA. VALVE PROTECTION CAP & VALVE OUTLET THREADED PLUG MUST REMAIN IN PLACE UNLESS CONTAINER SECURED W/ VALVE OUTLET PIPED TO USE POINT.
 Other Precautions:DON'T DRAG,SLIDE,ROLL CYLINDER. USE HAND TRUCK TO MOVE CYLINDER.USE PRESSURE REDUCING REGULATOR WHEN CONNECTING CYLINDER TO LOWER PRESSURE (<3000PSIG) PIPING/SYSTEM.DON'T HEAT CYLINDER TO INCREASE FLOW RATE. USE CHECK VALVE OR TRAP (PREVENT BACKFLOW)

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

Respiratory Protection:NONE NORMALLY REQUIRED.
 Ventilation:TO PREVENT ACCUMULATION ABOVE 25 MOLAR PERCENT.
 Protective Gloves:AS REQUIRED; ANY MATERIAL
 Eye Protection:SAFETY GOGGLES OR GLASSES
 Other Protective Equipment:SAFETY SHOES, SAFETY SHOWER
 Work Hygienic Practices:WASH HANDS THOROUGHLY WITH SOAP AND WATER BEFORE EATING, DRINKING, SMOKING OR USING TOILET FACILITIES.
 Supplemental Safety and Health
 LOW PRESSURE:CARBON STEEL & LOW ALLOY STEELS.HIGH PRESSURE :STAINLESS STEEL,COPPER.LEAD,SILVER,LEAD/TIN ALLOYS GOOD GASKET.TEFLON & KEL-F FOR NONMETAL GASKETS.DON'T USE IN PNEUMATIC EQUIPMENT.ALWAYS SECURE CYLINDERS IN AN UPRIGHT POSITION BEFORE TRANSPORTING. TRANSPORT IN OPEN FLATBED OR PICK UP TYPE VEHICLES.

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

HCC:G4
Boiling Pt:B.P. Text:-297F,-183C
Melt/Freeze Pt:M.P/F.P Text:-362F,-219C
Decomp Temp:Decomp Text:NOT GIVEN
Vapor Pres:NOT GIVEN
Vapor Density:< 1
Spec Gravity:1.11 (AIR=1)
Evaporation Rate & Reference:NOT GIVEN
Solubility in Water:SLIGHT
Appearance and Odor:COLORLESS, ODORLESS GAS

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

Stability Indicator/Materials to Avoid:YES
ALL FLAMMABLE MATERIALS.
Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.
Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:DON'T DISPOSE OF WASTE OR UNUSED QUANTITIES.
RETURN IN SHIPPING CONTAINER LABELED, WITH ANY VALVE OUTLET PLUGS
OR CAP SECURED & VALVE PROTECTION CAP IN PLACE TO SUPPLIER. FOR
EMERG DISPOSAL ASSISTANCE , CONTACT CLOSEST SUPPLIER OR CALL EMERG
PHONE #.

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