

AGA GAS INC -- OXYGEN,COMPRESSED,295 A 121 -- 8120-00-253-5976

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

Product ID:OXYGEN,COMPRESSED,295 A 121

MSDS Date:03/01/1991

FSC:8120

NIIN:00-253-5976

MSDS Number: CDLVF

=== Responsible Party ===

Company Name:AGA GAS INC

Address:6225 OAKTREE BLVD

Box:94737

City:CLEVELAND

State:OH

ZIP:44131

Country:US

Info Phone Num:216-642-6600/304-485-3555

Emergency Phone Num:216

-642-6600

CAGE:0KPC9

=== Contractor Identification ===

Company Name:AGA GAS INC

Address:6225 OAKTREE BLVD

Box:94737

City:CLEVELAND

State:OH

ZIP:44101-4737

Country:US

Phone:216-642-6600

CAGE:0KPC9

Company Name:ERIE MFG CO (800-558-3916)

Box:UNKNOW

CAGE:20846

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

Ingred Name:OXYGEN

CAS:7782-44-7

RTECS #:RS2060000

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixtu

re:NOT RELEVANT

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

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

Health Hazards Acute and Chronic:TARGET ORGANS:LUNGS, CNS. ACUTE-EYE/SKIN/ORAL:UNLIKELY (GAS). INHALE:HIGH CONCENTRATIONS (>75 MOLAR %) MAY CAUSE HYPEROXIA (CNS EFFECTS) WITH SYMPTOMS OF DIZZINESS, NAUSEA, CRAMPS, HYPOTHERMIA, RESPIRATION DIFFICULTIES, UNCONSCIOUSNESS/FAINTING, HEARING PROBLEMS, CONVULSIONS CAPABLE OF LEADING TO DEATH. CHRONIC- NONE.

E

Explanation of Carcinogenicity:OXYGEN IS NOT LISTED AS A CARCINOGEN BY THE IARC, NTP OR OSHA.

Effects of Overexposure:COUGH, SORE THROAT, CHEST PAIN, DIZZINESS, TINGLING SENSATION, MUSCULAR TWITCHING, UNCONSCIOUSNESS, HEARING PROBLEMS, CONVULSIONS, DEATH

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

First Aid:PROMPT MEDICAL ATTENTION IS MANDATORY IN ALL CASES OF OVEREXPOSURE TO OXYGEN. RESCUE PERSONNEL SHOULD BE AWARE OF EXTREME FIRE HAZARD ASSOCIATED WITH OXYGEN-RICH ATMOSPHERE. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR IF NEEDED. TREATMENT SHOULD BE SYMPTOMATIC AND SUPPORTIVE.

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

Flash Point:NON-FLAMMABLE

Lower Limits:NOT RELEVANT

Upper Limits:NOT RELEVANT

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM/DRY CHEMICAL FOR SURROUNDING FIRE. WATER IS PREFERRED EXTINGUISHER FOR COMBUSTIBLES.

Fire Fighting Procedures:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. MOVE CONTAINERS AWAY IF POSSIBLE. STOP FLOW OF OXYGEN WHICH IS SUPPORTING THE FIRE.

Unusual Fire/Explosion Hazard:ACCELERATES COMBUSTION. CONTACT WITH EASILY OXIDIZABLE ORGANIC/COMBUSTIBLE MATERIALS MAY RESULT IN IGNITION, VIOLENT COMBUSTION OR EXPLOSION.

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

Spill Release Procedures:STOP LEAK IF WITHOUT RISK. VENTILATE AREA OR MOVE LEAKING CONTAINER TO WELL-VENTILATED AREA. REMOVE ALL FLAMMABLE

MATERIALS. OXYGEN MUST NEVER BE PERMITTED TO STRIKE AN OILY SURFACE, GREASY CLOTHES, OR OTHER COMBUSTIBLE MATERIAL.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, DRY, VENTILATED AREA AWAY FROM INCOMPATIBLES. STORE CYLINDERS UPRIGHT & SECURED, BELOW 125F/52C. PROTECT CYLINDERS FROM PHYSICAL DAMAGE

Other Precautions:OXYGEN VIGOROUSLY ACCELERATES COMBUSTION. AVOID CONTACT WITH OILS, GREASES AND OTHER FLAMMABLE MATERIALS.

NOTE:REVERSE FLOW INTO CYLINDER MAY CAUSE RUPTURE. NEVER WORK ON A PRESSURIZED SYSTEM. NEVER LUBRICATE USING COMBUSTIBLES.

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

Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER, NIOSH-APPROVED AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION USE MUST CONFORM WITH OSHA RULES AS SPECIFIED IN

29 CFR 1910.134.

Ventilation:LOCAL EXHAUST TO PREVENT ACCUMULATION OF OXYGEN CONCENTRATION. MECHANICAL (GENERAL) IS ACCEPTABLE.

Protective Gloves:ANY MATERIAL FOR CYLINDER HANDLING

Eye Protection:SAFETY GOGGLES/GLASSES

Other Protective Equipment:SAFETY SHOES FOR CYLINDER HANDLING, SAFETY SHOWER, EYE WASH FOUNTAIN

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING AND AFTER HANDLING.

Supplemental Safety and Health

OXYGEN SHOULD NOT BE USED AS A SUBSTITUTE FOR COMPRESSED AIR IN PNEUMATIC EQUIPMENT SINCE THIS TYPE GENERALLY CONTAINS FLAMMABLE LUBRICANTS. EQUIPMENT TO CONTAIN OXYGEN MUST BE "CLEANED FOR OXYGEN SERVICE". COMPRESSED GAS CYLINDERS SHOULD NOT BE REFILLED EXCEPT BY QUALIFIED PRODUCERS OF COMPRESSED GASES. READ LABELS.

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

HCC:G4

NRC/State Lic Num:NOT RELEVANT

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

Melt/Freeze Pt:

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

Vapor Density:1.11

Spec Gravity:1.141 (LIQUID)

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:SLIGHT

Appearance and Odor:COLORLESS, ODORLESS GAS AT NORMAL TEMPERATURE AND PRESSURE

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALL FLAMMABLE MATERIALS ESPECIALLY OILS AND GREASES, COMBUSTIBLE MATERIALS

Stability Condition to Av

oid:HEATING CYLINDERS TO INCREASE FLOW RATE

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT ATTEMPT TO DISPOSE OF RESIDUAL OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OR CAPS SECURED TO YOUR SUPPLIER FOR PROPER DISPOSAL

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.