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AGA GAS INC -- CALIBRATING GAS MIXTURE -- 6830-00-460-7704

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

Product ID:CALIBRATING GAS MIXTURE

MSDS Date:01/01/1995

FSC:6830

NIIN:00-460-7704

Status Code:A

MSDS Number: CJZVP

=== Responsible Party ===

Company Name: AGA GAS INC Address: 6225 OAKTREE BLVD

City:CLEVELAND

State:OH ZIP:44131 Country:US

Info Phone Num:216-642-6600

Emergency Phone Num:216-642-6600

Resp. P

arty Other MSDS Num.:48

Preparer's Name: NOT PROVIDED.

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: AGA GAS INC

Address: 6055 ROCKSIDE WOODS BLVD

Box:94737

City:CLEVELAND

State:OH

ZIP:44131-2329

Country:US

Phone:216-642-6652

Contract Num:SP0450-99-M-JB29

CAGE:1E6A1

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

Ingred Name

:CARBON MONOXIDE CAS:630-08-0

RTECS #:FG3500000

Fraction by Wt: 40-50% PPM

Other REĆ Limits:NOT PROVIDED. OSHA PEL:55 MG/M3;50 PPM ACGIH TLV:29 MG/M3;25 PPM

Ingred Name: CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000 Minumum % Wt:1.2 Maxumum % Wt:1.5

Other REC Limits:NOT PROVIDED. OSHA PEL:9000 MG/M3;5000 PPM ACGIH TLV:9000 MG/M3;5000 PPM

ACGIH STEL:54000 MG/M3

Ingred Name: HYDROGEN

CAS:1333-74-0

RTECS #:MW8900000

Minumum % Wt:1.

Maxumum % Wt:1.2

Other REC Limits: NOT PROVIDED.

OSHA PEL:NO LISTING

ACGIH TLV:NO LISTING

Ingred Name: OXYGEN

CAS:7782-44-7

RTECS #:RS2060000

Minumum % Wt:20.

Maxumum % Wt:22.

Other REC Limits: NOT PROVIDED.

OSHA PEL:NONE LISTED ACGIH TLV:NONE LISTED

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000 Fraction by Wt: BALANCE

Other REC Limits:NOT PROVIDED.

OSHA PEL:NONE LISTED ACGIH TLV:NONE LISTED

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

LD50 LC50 Mixture: NOT PROVIDED.

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

Reports

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of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:NOT PROVIDED FOR THE MIXTURE. HMIS: INHALATION OF COMPRESSED AIR MAY CAUSE DECOMPRESSION SICKNESS. SYMPTOMS MAY INCLUDE: HEADACHE, VOMITING, VISUAL DEFECTS, DEAFNESS.
Explanation of Carcinogenicity:NONE Effects of Overexposure:NOT PROVIDED FOR THE MIXTURE. HMIS: INHALATION OF COMPRESSED AIR MAY CAUSE DECOMPRESSION SICKNESS. SYMPTOMS MAY INCLUDE: HEADACHE, VOMITING, VISUAL DEFECTS, DEAFNESS.
Medical Cond Aggravated by Exposure:NOT PROVIDED.
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First Aid:NOT PROVIDED FOR THE MIXTURE. AIR IS ESSENTIAL FOR LIFE. IF ILL EFFECTS OCCUR, REMOVE TO FRESH AIR AND CALL A PHYSICIAN.
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Extinguishing Media:NONFLAMMABLE GAS. Fire Fighting Procedures:IF CYLINDERS ARE INVOLVED IN A FIRE, SAFELY RELOCATE OR KEEP COOL WITH WATER SPRAY. Unusual Fire/Explosion Hazard:NONE
========= Accidental Release Measures ============
Spill Release Procedures:EVACUATE ALL PERSONNEL FROM AFFECTED AREA. USE APPROPRIATE PROTECTIVE EQUIPMENT. IF LEAK IS IN CONTAINER OR CONTAINER VALVE, CONTACT YOUR CLOSEST SUPPLIER LOCATION OR CALL THE EMERGENCY TELEPHONE NUM BER LISTED ON MSDS. Neutralizing Agent:NOT RELEVANT.
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Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILAT
AREA, AWAY FROM HEAVILY TRAFFICKED AREAS AND EMERGENCY EXITS. DO NOT ALLOW THE TEMPERATURE WHERE CYLINDERS ARE STORED TO EXCEED 125F (52C). CYLINDERS SHOULD BE ST ORED UPRIGHT AND FIRMLY SECURED. Other Precautions:USE IN WELL-VENTILATED AREAS. VALVE PROTECTION CAPS MUST BE IN PLACE UNLESS CYLINDER IS SECURED WITH VALVE OUTLET PIPED TO USE POINT. DO NOT DRAG, SLIDE OR ROLL CYLINDERS. USE A SUITABLE HAND TRUCK FO R CYLINDER MOVEMENT. USE A PRESSURE REDUCING REGULATOR

WHEN CONNECTING CYLINDER TO LOWER PRESSURE.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NOT PROVIDED FOR MIXTURE. HMIS: NONE REQUIRED. Ventilation:ADEQUATE Protective Gloves:ANY MATERIAL Eye Protection:SAFETY GOGGLES OR GLASSES Other Protective Equipment:SAFETY SHOES. Work Hygienic Practices:NOT PROVIDED. Supplemental Safety and Health THE CONTRACTOR PROVIDED ONE MSDS FOR EACH GAS (CARBON MONOXIDE, CARBON DIOXIDE, HYDROGE, OXYGEN AND NITROGEN). THE PRODUCT ID AND PERCENTAGES ARE TAKEN FROM THE CONTRACTING TECHNICAL DATA FILE (CTDF).
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HCC:G3 NRC/State Lic Num:NOT RELEVANT. Boiling Pt:=-195.8C, -320.5F B.P. Text:FOR NITROGEN Melt/Freeze Pt:=-209.9C, -345.9F M.P/F.P Text:FOR NITROGEN Decomp Temp:Decomp Text:NOT PROVIDED. Vapor Pres:NOT PROVIDED. Vapor Density:0.97 (N2) Spec Gravity:0.0725 LB/FT3 pH:NOT RELEVANT. Viscosity:NOT RELEVANT. Evaporation Rate & Decomp: Evaporation Rate & Decomp: Reference:N/A (GAS) Solubility in Water:VERY SLIGHTY (N2) Appearance and Odor:COLORLESS, ODORLESS GAS. Percent Volatiles by Volume:100 (GAS) Corrosion Rate:NOT RELEVANT.
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Stability Indicator/Materials to Avoid:YES NONE Stability Condition to Avoid:NONE (FOR NITROGEN) Hazardous Decomposition Products:NONE ==================================
Toxicological Information:NOT PROVIDED.

===== Ecological Information ============
Ecological:NOT PROVIDED.
======== Disposal Considerations ===========
Waste Disposal Methods:DO NOT ATTEMPT TO DISPOSE OF WASTE OR UNUSED QUANTITIES. RETURN IN THE SHIPPING CONTAINER PROPERLY LABELED, WITH ANY VALVE OUTLET PLUGS OR CAPS SECURED AND VALVE PROTECTION CAP IN PLACE TO YOUR SUPPLIER. FOR EMERGENCY DISPOSAL ASSISTANCE, CONTACT YOUR CLOSEST SUPPLIER LOCATION OR CALL THE EMERGNCY T ELEPHONE NUMBER LISTED ON MSDS.
======== MSDS Transport Information ==========
Transport Information:NOT PROVIDED FOR THE MIXTURE.
============ Regulatory Information ============
SARA Title III Information:NOT PROVIDED FOR THE MIXTURE. Federal Regulatory Information:NOT PROVIDED FOR THE MIXTURE. State Regulatory Information:NOT PROVIDED FOR THE MIXTURE.

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