

Product ID:NON-FLAMMABLE GAS MIXTURE

MSDS Date:04/22/2001

FSC:6665

NIIN:01-214-8247 Status Code:A

MSDS Number: CLCVT === Responsible Party === Company Name:AIRGAS INC

Address:259 RADNOR-CHESTER RD SUITE 100

City:RADNOR

State:PA

ZIP:19087-5240 Country:US

Info Phone Num:1-610-687-5253

Emergency Phone Num:800-949-7937

Resp. Party Other MSDS Num.:DOCUMENT NUMBER: 002103

CAGE:UO451

=== Contractor Identification === Company Name:AIRGAS INC

Address:259 RADNOR-CHESTER RD SUITE 100

Box:City:RADNOR

State:PA

ZIP:19087-5240 Country:US

Phone:1-610-687-5253

CAGE:UO451

Company Name: KAMPI COMPONENTS CO., INC.

Address:210 RT 13

Box:721 City:BRIS

City:BRISTOL State:PA

ZIP:19007-3517

Country:US

Phone:215-736-2000

Contract Num:SP0440-00-M-JA63

CAGE:7Z016

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

Ingred Name: ISOBUTYLENE

CAS:115-11-7

RTECS #:UD0890000

Fraction

by Wt: 1PPM-1.7%

Ingred Name: AIR (CAS# 7727-37-9, NITROGEN 79% AND CAS# 7782-44-7,

OXYGEN 21%) CAS:25635-88-5

Fraction by Wt: BALANCE

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

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

Health Hazards Acute and Chronic:ACUTE: THE MOST SIGNIFICANT HAZARD ASSOCIATED WITH COMPRESSED AIR IS THE PRESSURE HAZARD. CONTACT WITH RAPIDLY EXPANDING GASES (WHICH ARE RELEASED UNDER HIGH PRESSURE) MAY CAUSE FROSTBITE. SY

MPTOMS OF FROSTBITE INCLUDE CHANGE IN SKIN
COLOR TO WHITE OR GRAYISH-YELLOW. THE PAIN AFTER CONTACT WITH
LIQUID CAN QUICKLY SUBSIDE. CHRONIC: NO KNOWN ADVERSE HEALTH
EFFECTS ASSOCIATED WITH CHRONIC EXPOSURE T O THIS GAS. TARGET
ORGANS: RESPIRATORY SYSTEM, UNDER AMBIENT LOWPRESSURE AND CENTRAL
NERVOUS SYSTEM UNDER AMBIENT HIGH PRESSURE CONDITIONS. CHRONIC:
NONE EXPECTED.

Explanation of Carcinogenicity:NO COMPONENT OF THIS GAS MIXTURE IS FOUND ON THE FOLLOWING LISTS:

FEDERAL OSHA Z LIST, NTP, IARC,

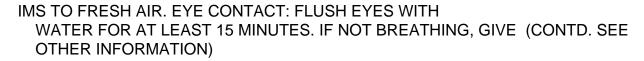
CAL/OSHA, AND THEREFORE IS NEITHER CONSIDERED TO BE NOR SUSPECTED TO BE A CANCER-CAUSING AGENT BY THES E AGENCIES.

Effects of Overexposure:INHALATION: THIS PRODUCT IS NON-TOXIC. AIR, THE MAIN COMPONENT OF THIS PRODUCT, IS NECESSARY FOR LIFE.

Medical Cond Aggravated by Exposure:ACUTE OR CHRONIC RESPIRATORY CONDITIONS, AS WELL AS DISORDERS INVOLVING THE "TARGET ORGANS" MAY BE AGGRAVATED BY OVEREXPOSURE TO THE COMPONENTS OF THIS PRODUCT.

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	First Aid Measures	

First Aid:RESCUERS SHOULD NOT ATTEMPT TO RETRIEVE VICTIMS OF EXPOSURE TO THIS PRODUCT WITHOUT ADEQUATE PERSONAL PROTECTIVE EQUIPMENT. AT A MINIMUM, SELF-CONTAINED BREATHING APPARATUS EQUIPMENT SHOULD BE WORN. VICTIMS) MUST BE TAKEN FOR MEDICAL ATTENTION. RESCUERS SHOULD BE TAKEN FOR MEDICAL ATTENTION, IF NECESSARY. TAKE COPY OF LABEL AND MSDS TO PHYDICIAN OR OTHER HEALTH PROFESSIONAL WITH VICTIM. REMOVE VI CT



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

Flash Point:NA

Autoignition Temp: Autoignition Temp Text: NA

Lower Limits:NA Upper Limits:NA

Extinguishing Media:NON-FLAMMABLE GAS. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:STRUCTURAL FIREFIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARAT

US AND FULL PROTECTIVE EQUIPMENT.

MOVE FIRE-EXPOSED CYLINDERS FROM AREA, IF POSSIBLE WITHOUT RISK TO FIRE-FIGHTERS. WITHDRAW IMMEDIATE LY IN CASE OF RISING SOUNDS FROM VENTING PRESSURE RELIEF DEVICES OR ANY DISCOLORATION OF TANKS OR CYLINDERS DUE TO FIRE.

Unusual Fire/Explosion Hazard:WHEN INVOLVED IN A FIRE, THIS MATERIAL MAY IGNITE AND PRODUCE TOXIC GASES, INCLUDING CARBON MONOXIDE AND CARBON DIOXIDE. ADDITIONAL, WHEN INVOLVED IN FIRE, THE CYLINDERS MAY RUPTURE. NOT

EXPLOSION SEN SITIVE TO MECHANICAL IMPACT OR TO STATIC DISCHARGE.

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

Spill Release Procedures:UNCONTROLLED RELEASES SHOULD BE COVERED BY TRAINED PERSONNEL USING PRE-PLANNED PROCEDURES. PROPER PROTECTIVE EQUIPMENT SHOULD BE USED. MINIMUM PERSONAL PROTECTIVE EQUIPMENT SHOULD BE LEVEL D: SAFETY G LASSES, MECHANICALLY-RESISTANT GLOVES. LEVEL B, WHICH INCLUDES USE OF SCABA, SHOULD BE WORN WHEN OXYGEN IS BELO

W 19.5% OR UNKNOWN. STOP RELEASE OF LEAKING GAS. IF NOT (CONTD. SEE "WASTE DISPOSAL")

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

Handling and Storage Precautions:STORE IN COOL(,< 125F), DRY, WELL-VENTILATED, FIREPROOF AREA AWAY FROM FLAMMABLE OR COMBUSTIBLE MATERIALS AND CORROSIVE ATMOSPHERE. STORE AWAY FROM HEAT, IGNITION SOURCES,AND OUT OF DIRECT SUNLIGHT. S TORE CYLINDERS UPRIGHT AND FIRMLY SECURED FROM FALLING. MOVE CYLINDERS WITH SUITABLE H

AND-TRUCK.

Other Precautions:DO NOT DRAG, ROLL, DROP, STRIKE EACH OTHER. DO NOT HEAT CYLINDER OR USE OILS OR GREASE ON GAS-HANDLING FITTINGS OR EQUIPMENT. USE DESIGNATED CGA FITTINGS. DO NOT USE ADAPTERS. USE CHECK VALVE OR TRAP IN DISCHARGE LINE.

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

Respiratory Protection:MAINTAIN OXYGEN LEVELS ABOVE 19.5%.USE PROTECTION AUTHORIZED IN OSHA STANDARD 29 CFR 1910.134,APPLICABLE STATE REGULATIONS, OR CANADIAN CS

A STANDARD Z94,4-93. OXYGEN LEVELS

BELOW 19.5% ARE CONSIDERED IDLH BY OSHA. IN SUCH ATMOAPHERES USE A FULL-FACEPIECE PRESSURE/DEMAND SCABA OR FULL FACEPIECE, SUPPLIED AIR RESPIRATOR WITH AUXILIARY SELF-CONTAINED AIR SUPPLY.

Ventilation: USE WITH ADEQUATE VENTILATION.

Protective Gloves:WEAR MECHANICALLY-RESISTANT GLOVES WHEN HANDLING CYLINDERS.

Eye Protection: SPLASH GOGGLES, SAFETY GLASSES OR FACE-SHIELD..

Other Protective Equipment: USE BODY PROTECTION APPROPRIATE FOR TASK. IF

A HAZARD OF INJURY TO THE FEET EXISTS, ALSO USE FOOT PROTECTION AS DESCRIBED IN U.S. OSHA 29 CFR.

Work Hygienic Practices:DO NOT EAT OR DIRNK WHILE HANDLING CHEMICALS. Supplemental Safety and Health

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

HCC:G3

Boiling Pt:=-194.3C, -317.7F Melt/Freeze Pt:=-216.2C, -357.2F

Vapor Density:1

Spec Gravity:SPECIFIC VOL=13.3 FT3/LB

Solubility in Water:1.40% (V/V)

Appearance and Odor: COLORLESS, ODORLESS GAS.

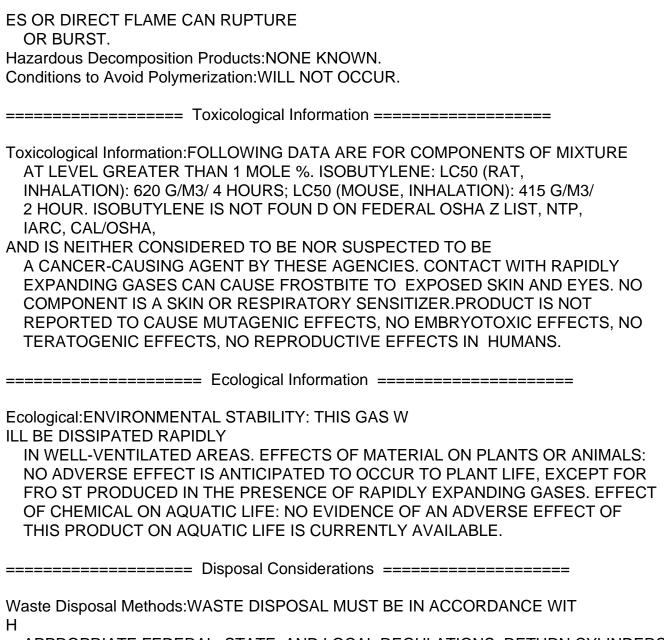
======= Stabil

ity and Reactivity Data =========

Stability Indicator/Materials to Avoid:YES

AIR IS NOT COMPATIBLE WITH FUELS, IN THAT AIR WILL SUPPORT COMBUSTION. ISOBUTYLENE COMPONENT OF THIS MIXTURE IS INCOMPATILE WITH STRONG OXIDIZERS (E.G., CHLORINE, BROMINE PENTAFLUORIDE, OXYGEN, OXYGEN DIFLUORIDE AND NITROGE

Stability Condition to Avoid:NORMALLY STABLE. CONTACT WITH INCOMPATIBLE MATERIALS AND EXPOSURE TO HEAT, SPARKS, SOURCES OF IGNITION. CYLINDERS EXPOSED TO HIGH TEMPERATUR



APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATIONS. RETURN CYLINDERS WITH ANY RESIDUAL PRODUCT TO AIRGAS INC. DO NOT DISPOSE OF LOCALLY. (CONTD. FROM "SPILL RE LEASE") ABLE TO STOP RELEASE, ALLOW GAS TO RELEASE IN PLACE OR REMOVE TO A SAFE AREA AND ALLOW GAS TO RELEASE THERE.

======= MSDS Transport Information ==========

Transport Information: THIS MATERIAL IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION. PROPER

SHIPPING

NAME: COMPRESSED GASES, N.O.S. (AIR, ISOBUTYLENE); CLASS 2.2 (COMPRESSED GAS); UN 1956; DOT LABEL REQUIRED: COMPRESSED GAS; NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2000): 126. CANADA: THIS GAS MIXTURE IS CONSIDERED AS DANGEROUS GOODS, PER REGULATIONS OF TRANSPORT CANADA. USE THE ABOVE INFORMATION FOR THE PREPARATION OF CANADIAN SHIPMENTS.

SARA Title III Information: THE COMPONE NTS OF THIS GAS MIXTURE ARE NOT

SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 302, 304, AND 313 OF TITLE I I I OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT. U.S. SARA THRESHOLD PL ANNING QUANTITY:THERE ARE NO SPECIFIC THRESHOLD PLANNING QUANTITIES FOR THIS MATERIAL. THE DEFAULT FEDERAL MSDS SUBMISSION AND INVENTORY REQUIREMENT FILING THRESHOLD OF 10,000 LB (4,540KG) MAY APPLY, PER 40 CFR 370.20. U.S. CERCLA REPORTABLE QUANTITY (RQ): NOT APPLICIABLE.

Federal

Regulatory Information:THE COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY. OTHER U.S. FEDERAL REGULATIONS: NOT APPLICABLE. CANADIAN REGULATIONS: CANADIAN INVENTORY: COMPONENTS OF THIS PRODUCT ARE LISTED ON THE DSL INVENTORY. CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: COMPONENTS OF THIS PRODUCT ARE NOT ON THE CEPA PRIOROITIES SUBSTANCES LISTS. CANADIAN WHMIS: CLASS A: COMPRESSE D GASES.

State Regulatory Information: CALIFORNIA S

AFE DRINKING WATER AND TOXIC

ENFORCEMENT ACT (PROPOSITION 65): NO COMPONENT OF THIS PRODUCT IS ON THE CALIFORNIA PROPOSITION 65 LISTS. PRODUCT COVERED UNDER FOLLOWING STATE REGULATIONS: FL :SUBSTANCE LIST, ISOBUTYLENET; MN: LIST OF HAZARDOUS SUBSTANCES, ISOBUTYLENE; NJ: RIGHT TO KNOW HAZARDOUS SUBSTANCE LIST, ISOBUTYLENE; PA: HAZARDOUS SUBSTANCE LIST, ISOBUTYLENE.

======== Other Information ===============

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