

INSTRUMENTATION LABORATORY INC,ANALYTICAL INST.DIV -- LABGAS CALIBRATION GASSES,
(NITROGEN-CARBON -- 6830-00-145-0091

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

Product ID:LABGAS CALIBRATION GASSES, (NITROGEN-CARBON

MSDS Date:06/01/1990

FSC:6830

NIIN:00-145-0091

MSDS Number: BMZBB

=== Responsible Party ===

Company Name:INSTRUMENTATION LABORATORY INC,ANALYTICAL INST.DIV

Address:113 HARTWELL AVE

City:LEXIN

GTON

State:MA

ZIP:02173-3190

Country:US

Info Phone Num:617-861-0710

Emergency Phone Num:617-861-0710

CAGE:60661

=== Contractor Identification ===

Company Name:INSTRUMENTATION LABORATORY INC,ANALYTICAL INST.DIV

Address:113 HARTWELL AVE

Box:City:LEXINGTON

State:MA

ZIP:02173-3190

Country:US

Phone:617-861-0710

CAGE:60661

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

Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: 10%

Other REC Limits:NONE SPECIFIED

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

Ingred Name:NITROGEN

CAS:7727-37-9

RTECS #:QW9700000

Fraction by Wt: 90%

Other REC Limits:NONE SPECIFIED

ACGIH TLV:ASPHYXIAN; 9192

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS NOT APPLICABLE.

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

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

Health Hazards Acute and Chronic:NONE. HUMANS CAN NOT BREATH AIR
CONTAINING MORE T

HAN 10% CARBON DIOXIDE WITHOUT LOSING
CONSCIOUSNESS. CARBON DIOXIDE AND NITROGEN WILL ACT AS A SIMPLE
ASPHYXIAN BY DISPLACING OXYGEN. NORMAL ACTIVITY REQUIRES A
MINIMUM OF 18% OXYGEN.

Effects of Overexposure:SINCE CALIBRATION GASES ARE ODORLESS,
COLORLESS, AND TASTELESS, THERE MAY NOT BE ADEQUATE WARNING OF HIGH
LEVELS OF THE NITROGEN-CARBON DIOXIDE GASES. SYMPTOMS OF LACK OF
OXYGEN MAY INCLUDE RAPID RESPIRATION, DIZZINESS, FATIGUE, NAUSEA,
DROWSINESS, BLUE DISCOLORATION OF SKIN AND LIPS, UNCONSCIOUSNESS,
AND DEATH.

Medical Condition Aggravated by Exposure:NONE

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

First Aid:MOVE PATIENT TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF
BREATHING DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION.

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

Flash Point:NONE

Extinguishing Media:NONFLAMMABLE GAS. USE SUITABLE MEDIA FOR
SURROUNDING FIRE; WATER FOG, CARBON DIOXIDE, FOAM,
OR DRY CHEMICAL.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SPRAY.

Unusual Fire/Explosion Hazard:CONTENTS UNDER PRESSURE. CONTAINER MAY
EXPLODE IN HEAT OF FIRE.

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

Spill Release Procedures:EVACUATE ALL PERSONNEL FROM RELEASE AREA. MOVE
LEAKY CYLINDER TO OUTDOORS OR VENTILATED HOOD. ALLOW GAS TO
DIS

CHARGE AT MODERATE RATE.

Neutralizing Agent:NOT APPLICABLE.

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

Handling and Storage Precautions:PROTECT CYLINDERS FROM EXCESSIVE HEAT,
PRESSURE AND PHYSICAL DAMAGE. KEEP CYLINDER VALVE CLOSED AND WITH
PROTECTION CAP IN PLACE WHEN NOT IN USE.

Other Precautions:CYLINDERS SHALL BE LOCATED OR SECURED SO THAT THEY
CAN NOT BE KNOCKED OVER. PROPER CYLINDER CARTS SHOULD BE USED
DURING TRANSPORTATION. DO NOT DEFACE CYLINDER

ERS OR LABELS. HANDLE
CYLINDERS WITH PROPER CAUTION.

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

Ventilation:REGULAR ROOM VENTILATION.

Protective Gloves:WORK GLOVES FOR HANDLING CYLINDERS.

Eye Protection:APPROVED SAFETY GLASSES OR FACE SHIELD.

Other Protective Equipment:SAFETY SHOES WHEN HANDLING LARGE CYLINDERS.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND
RECOMMENDED PROCEDURES. USE PROPER CARE WHEN HANDLING AND STORING
CYLINDERS.

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

HCC:G3

Vapor Pres:GAS @ 20C

Vapor Density:0.968-1.24

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS, ODORLESS GAS.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

AVOID FLAMMABLE AND COMBUSTABLE MATERIALS, ESPECIALLY GREASES AND OILS.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES.

Hazardous Decomposition Products:NONE

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

Waste Disposal Methods:DISPOSE OF DEFECTIVE CYLINDERS IN ACCORDANCE
WITH LOCAL, STATE AND FEDERAL REGULATIONS.

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