

SECTION I - NAME AND PRODUCT

ADDRESS (STREET, CITY, STATE AND ZIP CODE)
63 NORTH STREET, MEDFIELD, MA 02052

PRODUCT NAME CALIBRATING GAS	PART NO. 477438	CONTACT REGULATORY AFFAIRS
CHEMICAL FAMILY OR PRODUCT TYPE GAS MIXTURE (CO ₂ , N ₂)	DATE OF PREPARATION 12/15/86	EMERGENCY TELEPHONE NO. 1-800-255-3232

SECTION II - COMPOSITION

CHEMICAL NAME	%	CAS#
CARBON DIOXIDE	10	124-38-9
NITROGEN	BALANCE	7727-37-9

SECTION III - PHYSICAL DATA

BOILING POINT N/A	MELTING POINT N/A	SPECIFIC GRAVITY N/A
VAPOR PRESSURE N/A	PERCENT VOLATILE BY VOL. N/A	VAPOR DENSITY N/A
EVAPORATION RATE N/A	SOLUBILITY IN WATER N/A	APPEARANCE/ODOR COLORLESS/ODORLESS

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) N/A	FLAMMABLE LIMITS	LEL N/A	UEL N/A
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EXTINGUISHING MEDIA
N/A

SPECIAL FIRE FIGHTING PROCEDURES
KEEP EXPOSED CYLINDERS COOL WITH WATER SPRAY. SHUT OFF GAS SOURCE AND REMOVE CYLINDERS IF POSSIBLE.

EXPLOSION POTENTIAL
EXPOSURE TO TEMPERATURE ABOVE 50 C (130 F) MAY CAUSE CONTENTS TO VENT OR CAUSE BURSTING.

SECTION V - HEALTH AND HAZARD DATA

THRESHOLD LIMIT VALUE (TLV)
CARBON DIOXIDE - 5000 PPM

EFFECTS OF OVEREXPOSURE
SYMPTOMS INCLUDE HEADACHE, DIZZINESS, MUSCULAR INCOORDINATION AND RAPID RESPIRATION. HIGH CARBON DIOXIDE LEVELS CAN EFFECT THE CENTRAL NERVOUS SYSTEM CAUSING A PARALYSIS OF THE BREATHING CONTROL CENTERS.

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EMERGENCY AND FIRST AID PROCEDURES
REMOVE VICTIM TO FRESH AIR. RESTORE AND/OR SUPPORT BREATHING AS NECESSARY.

SECTION VI - REACTIVITY DATA

STABILITY UNSTABLE STABLE X POLYMERIZATION MAY OCCUR WILL NOT OCCUR X

INCOMPATIBILITY (MATERIALS TO AVOID)
N/A

DECOMPOSITION PRODUCTS
NONE

CONDITIONS TO BE AVOIDED

N/A

SECTION VII - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN CASE OF LEAKS OR SPILLS
VENTILATE AREA. REMOVE LEAKING CYLINDER TO EXHAUST HOOD OR SAFE OUTDOOR AREA.

WASTE DISPOSAL METHOD
NEVER THROW TANKS INTO FIRE OR INCINERATOR.

SECTION VIII - PERSONAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (TYPE) SELF CONTAINED BREATHING APPARATUS IS NECESSARY
IN CASE OF EMERGENCY.

VENTILATION MECHANICAL N/A
 LOCAL EXHAUST GENERAL VENTILATION

EYE PROTECTION SAFETY GLASSES PROTECTIVE GLOVES N/A

OTHER PROTECTIVE EQUIPMENT SAFETY SHOES WHEN HANDLING CYLINDERS.

MEASURES TO BE TAKEN DURING REPAIR AND MAINTENANCE OF CONTAMINATED EQUIPMENT
THAT HAS BEEN IN CONTACT WITH THIS MATERIAL N/A

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
TANKS MUST BE SECURED AGAINST A WALL OR BENCH, ON THE FLOOR OR PLACED IN A TANK
BASE SUPPORT STAND.

OTHER PRECAUTIONS
DO NOT DEFACE CYLINDERS OR LABELS. MOVE CYLINDERS WITH AN ADEQUATE HAND TRUCK.
MATERIAL IS COMPRESSED GAS. USE WITH APPROPRIATE GAS REGULATORS AND EQUIPMENT
RATED FOR PRESSURE.

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SECTION X - OTHER INFORMATION

THESE GASES ARE FOR USE IN THE CALIBRATION OF CLINICAL AND RESEARCH
INSTRUMENTATION. U.S. LAW PROHIBITS DISPENSING THESE GASES FOR DRUG USE.

THE INFORMATION CONTAINED HEREIN HAS BEEN COMPILED FROM DATA PRESENTED IN
VARIOUS TECHNICAL SOURCES BELIEVED TO BE ACCURATE. CIBA CORNING MAKES NO
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THIS INFORMATION AND TO ASSURE THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS.

N/A - NOT APPLICABLE OR NOT AVAILABLE

CIBA-CORNING

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