

CHIRON DIAGNOSTIC CORPORATION -- 477542 CALIBRATING GAS 5% CO2,20% OXYGEN,BALANCE  
NITROGEN -- 6830-01-256-3233

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

Product ID:477542 CALIBRATING GAS 5% CO2,20% OXYGEN,BALANCE NITROGEN

MSDS Date:01/16/1997

FSC:6830

NIIN:01-256-3233

MSDS Number: BWGMV

=== Responsible Party ===

Company Name:CHIRON DIAGNOSTIC CORPORATION

Address:63 NORTH ST

City:MEDFIELD

State:MA

ZIP:02

052-2308

Country:US

Info Phone Num:800-255-2121 / FAX 508-359-2879

Emergency Phone Num:800-888-8372

CAGE:JO058

=== Contractor Identification ===

Company Name:CHIRON DIAGNOSTICS CORP

Address:63 NORTH ST

City:MEDFIELD

State:MA

ZIP:02052

Country:US

Phone:800-255-2121

CAGE:JO058

Company Name:CIBA CORNING DIAGNOSTICS CORP A JOINT VENTURE

Address:63 NORTH ST

Box:City:MEDFIELD

State:MA

ZIP:02052-2308

Country:US

Phone:508-359-7711/ 800-255-8769

CAGE:51404

===== Composition/Information on Ingr

edients =====

Ingred Name:CARBON DIOXIDE  
CAS:124-38-9  
RTECS #:FF6400000  
Fraction by Wt: 5.0%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5000 PPM  
ACGIH TLV:5000PPM/30000STEL;96

Ingred Name:NITROGEN  
CAS:7727-37-9  
RTECS #:QW9700000  
Fraction by Wt: BALANCE  
Other REC Limits:NONE RECOMMENDED  
ACGIH TLV:ASPHYXIAN; 9596

Ingred Name:OXYGEN  
CAS:7782-44-7  
RTECS #:RS2060000  
Fraction by Wt: 20%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SINCE MIX HASNT BEEN TESTED AS WHOLE  
HEALTH EFFECTS REPORTED FOR INDIVIDUAL CHEM INGREDIENTS.CARBON  
DIOXIDE(CO2):EYE/SKIN:CRYOGENIC BURNS MAY RESULT FROM CONTACT  
W/GAS/CYL @PT OF EXIT FRM CYL.SKIN:ABSORPT :NOT ABSORBED THRU  
SKIN.INGEST:NONE.INHAL:MAY CAUSE ASPHYXIATION.CHRONIC:MAY AFFECT  
AC  
ID-BASE BALANCE,RESULTING(SUPPLEMENT)  
Explanation of Carcinogenicity:PER MSDS:CHEM INGREDIENTS NOT CLASSIFIED AS  
CARCINOGENS BY OSHA/IARC/NTP/ACGIH/CALIFORNIA/UNK/GERMANY.  
Effects of Overexposure:CO2:HEAD,SHORTNESS OF BREATH,NAUSEA,VOMIT,DIZZ.  
NITROGEN:HEAD,DIZZ,TUNNEL VISION,NUMBING & TINGLING OF EXTREMITIES.  
ACCORDING TO APPLICABLE REGS PRODUCT DOESNT CONTAIN CHEM INGREDIENTS  
CLASSIFIED AS HAZ OR I N SUFFICIENT CONC TO CLASSIFY PRODUCT AS  
HAZARDOUS.  
Medical Cond Aggravated by Exposure:NO

T ESTABLISHED. TARGET

ORGANS:EYE/SKIN FOR CARBON DIOXIDE AND NITROGEN;LUNGS FOR NITROGEN.

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First Aid Measures  
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First Aid:EYE:GET MED ATTN IMMED.SKIN:SEEK MED ADVICE IMMED FOR  
CYROGENIC BURNS.INHAL:REMOVE TO FRESH AIR.INGEST:NOT ROUTE OF  
EXPOSURE.AFTER FOLLOWING FIRST AID MEASURES SEEK PROFESSIONAL  
MEDICAL ATTENTION.

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Fire Fighting Measures  
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Flash Point:NOT FLAMMABLE

Autoignition Temp:A

utoignition Temp Text:NP

Lower Limits:NOT FLAMM

Upper Limits:NOT FLAMM

Extinguishing Media:MEDIA APPROPRIATE FOR SURROUNDING FIRE.

Fire Fighting Procedures:STD FIREFIGHTING PRECAUTIONS SHOULD BE  
FOLLOWED WHEN TRYING TO EXTINGUISH ANY FIRE.WEAR FULL BUNKER GEAR  
INCLUDING POSITIVE PRESSURE SCBA IN ANY ENCLOSED SPACE.

Unusual Fire/Explosion Hazard:NONE SPECIFIED BY MANUFACTURER.

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Accidental Release Measures  
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Spill Release Procedures:VAPORS-NON-FLAMMAB

LE.VAPOR DENSITY RELATIVE TO

AIR-SIMILAR.ALLOW GAS TO VENTILATE FROM AREA UNTIL NORMAL BREATHING  
AIR CONDITIONS ARE MET.RELEASES MUST BE HNDL BY TRAINED  
PERSONNEL.FOR APPROP PPE FOR RESPONDING TO SPILL/RELEASE SEE MSDS  
SECTIONS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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Handling and Storage  
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Handling and Storage Precautions:STORAGE TEMP(MIN/MAX):SEE PROD PKG  
INSERT.KEEP CYL CLSD WHEN NOT IN USE.IN ORDER TO MIN RISK OF  
UNCONTROLLED RELEASE OF GAS ALWAYS SECURE FULL(CONTD)

Other Precautions:CONTD:GAS CYL & PROTECT CYL & CYL VALVES FRM DMG. IN  
EVENT OF RELEASES APPROPR PPE INCLUDE:SAF GLASS,LEATHER GLOVE,LAB  
COAT.AIR SUPP RESP PROT W/ESCAPE BTL OR SCBA MAY BE REQUIRED IF  
EXPO TO HAZ INGRE S MAY EXCEED RECOG SAF LIMITS OR (SUPP)

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Exposure Controls/Personal Protection  
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Respiratory Protection:NOT NECESSARY.

Ventilation:HANDLE IN AREA W/GOOD GENERAL ROOM VENTILATION.

Pro

Protective Gloves:NONE

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS

Other Protective Equipment:STD PPE FOR LAB WORK INCLUDES SAF GLASSES & LAB COAT.

Work Hygienic Practices:PRODUCT SHOULD BE HANDLED IAW GOOD LAB PRACTICES.

Supplemental Safety and Health

HEALTH:IN ACIDOSIS,CAN AFFECT CALCIUM

METABOLISM.NITROGEN:EYE/SKIN:CRYOGENIC BURNS MAY RESULT FROM CONTACT W/GAS/CYL @PT OF EXIT FROM CYL.INGEST:NONE.SKIN ABSORPT:NOT ABSORBED THRU SKIN.INHAL:MAY CAUSE ASPHYXIAATION IF IT DISPLACES OXY IN

AIR.CHRONIC:NOT ESTABLISHED. OTHER PRECAUTIONS:LEVELS DISPLACE TO LEVELS