

CHIRON DIAGNOSTICS CORP -- 477434, CALIBRATING GAS 5.0% CO*2, (SUPDAT) --
6830-00-280-9240

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

Product ID:477434, CALIBRATING GAS 5.0% CO*2, (SUPDAT)

MSDS Date:01/16/1997

FSC:6830

NIIN:00-280-9240

MSDS Number: CHDYF

=== Responsible Party ===

Company Name:CHIRON DIAGNOSTICS CORP

Address:63 NORTH ST

City:MEDFIELD

State:MA

ZIP:02052

Country:US

Info Phone Num:800-255-21

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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 Ingredients =====

Ingred Name:CARBON DIOXIDE

CAS:124-38-9

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TECS #:FF6400000
Fraction by Wt: 6-12%
OSHA PEL:5000 PPM
ACGIH TLV:5000 PPM/30000 STEL

Ingred Name:OXYGEN DIFLUORIDE
CAS:7783-41-7
RTECS #:RS2100000
Fraction by Wt: 0-21%
OSHA PEL:C 0.05 PPM
ACGIH TLV:C 0.05 PPM

Ingred Name:NITROGEN
CAS:7727-37-9
RTECS #:QW9700000
Fraction by Wt: 67-100%
OSHA PEL:N/K
ACGIH TLV:ASPHYXIAN

Ingred Name:SUPDAT: TUNNEL VISION, & NUMBING & TINGLING OF EXTREMITIES.
CHRONIC: CARBON DIOXIDE: LONG-TERM EXPOS MAY AFFECT (ING 5)
RTECS #:9999999ZZ

Ingred Name:ING 4:
ACID-BASE BALANCE, RESULTING IN ACIDOSIS AND CAN
AFFECT CALCIUM METABOLISM.
RTECS #:9999999ZZ

Ingred Name:WASTE DISP METH: BIPHENYLS(THAT IS, NO CHEMS ON EPA TOXIC
POLLUTANT LIST(40 CFR 401.15), HOWEVER, IN ORDER TO (ING 7)
RTECS #:9999999ZZ

Ingred Name:ING 6: DETERM PROPER DISPOSAL, CONSULT APPLICABLE LOCAL,
STATE AND FEDERAL REGULATIONS.
RTECS #:9999999ZZ

Ingred Name:EYE PROT: & FULL LENGTH FACESHIELD .
RTECS #:9999999ZZ

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

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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:ACUTE: CARBON DIOXIDE: TARGET ORGANS:
EYES & SKIN. EYE: CRYOGENIC BURNS MAY RSLT FROM CONT W/GAS OR CYL @
POINT OF EXIT FROM CYL. SKIN: CRYOGENIC BURNS MAY RSLT FROM CONT
W/GAS OR CYL @ POINT OF EXIT FROM CYL. INHAL: MAY CAUSE ASPHY.
SIGNS& SYMPS OF EXPOS: HDCH, SHORTNESS OF BRE

ATH, NAUS, VOMIT &
(EFT OF OVEREXP)

Explanation of Carcinogenicity:NOT RELEVANT.

Effects of Overexposure:HLTH HAZ: DIZZ. OXYGEN(0-21%): TARGET ORGANS:
EYES & SKIN. ACUTE: EYE: CRYOGENIC BURNS MAY RSLT FROM CONT W/GAS
OR CYL @ PONT OF EXIT FROM CYL. SKIN: CRYOGENIC BURNS MAY RSLT FROM
CONT W/GAS OR CYL @ POINT OF EXIT FROM CYL. NITROGEN: TARGET
ORGANS: EYES, SKIN & LUNGS. ACUTE: EYE: CRYOGENIC BURNS MAY RSLT
FROM (SUPDAT)

Medical Cond Aggravated by Exposure:NOT ESTABLISHE
D.

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

First Aid:INGEST: CALL MD IMMEDIATELY . EYES: GET MED ATTN IMMED.
IMMEDIATELY FLUSH W/POTABLE WATER FOR AT LST 15 MINS, SEEK
ASSISTANCE FROM MD . SKIN: SEEK MED ADVICE IMMED FOR CRYOGENIC
BURNS. FLU SH W/COPIOUS AMOUNTS OF WATER. CALL MD.. INHAL: REMOVE
TO FRESH AIR.

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

Flash Point:NOT FLAMMABLE

Extinguishing Media:MEDIA APPROPRIATE FOR SUR
ROUNDING FIRE.

Fire Fighting Procedures:USE NIOSH APPROVED SCBA & FULL PROTECTIVE
EQUIPMENT . STANDARD FIRE-FIGHTING PRECAUTIONS SHOULD BE FOLLOWED
WHEN TRYING TO EXTINGUISH ANY FIRE.

Unusual Fire/Explosion Hazard:NONE.

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

Spill Release Procedures:NON-FLAMMABLE. VAP DENS RELATIVE TO AIR:
SIMILAR. CLEAN-UP PROCEDURES: ALLOW GAS TO VENTILATE FROM AREA
UNTIL NORMAL BREATHING AIR CONDITIONS ARE MET. RELEASES MUST BE

HNDLD BY TRAINED PERSONNEL.
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:KEEP CYLINDERS CLOSED WHEN NOT IN USE.
Other Precautions:IN ORDER TO MINIMIZE RISK OF UNCONTROLLED RELEASE
GAS, ALWAYS SECURE FULL GAS CYLINDERS AND PROTECT CYLINDERS AND
CYLINDER VALVES FROM DAMAGE. THIS PRODUCT SHOULD BE HANDLED IN
ACCORDANCE WITH GOOD LABORATORY PRACTICES.

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

Respiratory Protection:NIOSH APPROVED AIR SUPPLYING RESPIRATORY PROT
W/ESCAPE BOTTLES/NIOSH APPRVD SELF CONTAINED BREATHNG APPARATUS MAY
BE REQD IF EXPOS TO HAZ INGREDIENTS MAY EXCEED RECOGNIZED SAFE
LIMITS/OXYGEN LEVELS ARE DISPLACED TO LEVELS