

MATHESON GAS PRODUCTS INC -- CARBON DIOXIDE -- 6830-00-245-0199

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

Product ID:CARBON DIOXIDE

MSDS Date:08/31/1997

FSC:6830

NIIN:00-245-0199

MSDS Number: CGWZT

=== Responsible Party ===

Company Name:MATHESON GAS PRODUCTS INC

Address:530 WATSON STREET

City:WHITBY

Country:ON

Info Phone Num:973-257-1100

Emergency Phone Num:800-424-9300(CHEMTREC)/973-257-1100

CAGE:MATHE

=== Contractor Identification ===

Company Name:MATHESON CO DIV OF G D SEARLE MEDICAL PRODUCTS

Address:30 SEAVIEW DRIVE

Box:City:SCAUCUS

State:NJ

ZIP:07096

Country:US

Phone:201-867-4100

CAGE:96355

Company Name:MATHESON GAS PRODUCTS

Address:30 SEAVIEW DRIVE

Box:85

City:SECAUCUS

State:NJ

ZIP:07096

Country:US

Phone:201-867-4100

CAGE:MATHE

Company Name:MATHESON GAS PRODUCTS INC

Address:530 WATSON STREET E

Box:City:WHITBY,ONT, CANADA

State:ON

Country:CN

Phone:905-668-3397

CAGE:50696

===== Co

Composition/Information on Ingredients =====

Ingred Name:CARBON DIOXIDE  
CAS:124-38-9  
RTECS #:FF6400000  
Fraction by Wt: 100%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5000 PPM  
ACGIH TLV:5000PPM/30000STEL;96

===== 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:MAJOR HEALTH HAZ:DIFFICULTY  
BREATH.SHORT TERM-INHAL:RINGING IN EARS,NAU,RIREG  
HEARTBEAT,HEAD,DROWS,DIZZ,TINGLING SENS,VISUAL  
DISTRUBANCES,SUFFOCATION,CONVUL,COMA.SKIN:BLISTERS,FROSTBITE.EYE:IR  
RIT,BLUR VISION.INGEST:FROSTBITE.LONG TERM-NO INFOR ON SIGNIFICANT  
ADVERSE EFFECTS.  
Explanation of Carcinogenicity:PER MSDS:CARCINOGENICITY(US  
ONLY):NTP/IARC/OSHA:NO.  
Effects of Overexposure:DIFFICULTY BREATHING.  
Medical Cond Aggravated by Exposure:HEART OR CARDIOVASCULAR DISORDERS,  
RESPIRATORY DISORDERS.

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

First Aid:INHAL:WHEN SAF TO ENTER REMOVE FROM EXPO.USE BAG VALVE  
MASK/SIMILAR DEVICE TO PERFORM ART RESP(RESCUE BREATH)IF  
NEEDED.KEEP WARM/@REST.GET MED ATTN IMMED.SKIN:WASH IF  
NEEDED.FROSTBITE/FREEZ/CRYOGENIC BURNS OCCUR WARM AREA IN WARM  
H2O.NOT AVAI GENTLY WRAP PARTS IN BLANKETS.ALLOW CIRCULATION TO  
RETURN NATURALLY.GET MED ATTN IMMED.EYE:UNLIKELY EMERG TREAT WILL  
BE REQUIRED.WASH W/LG AMTS OF H2O(SUPPL)

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

Flash Point:NON-FLAMMABLE  
Autoignition Temp:Autoignition Temp Text:NA  
Lower Limits:NON-FLAMM  
Upper Limits:NON-FLAMM  
Extinguishing Media:USE REGULAR FOAM OR FLOOD W/FINE WATER SPRAY.  
Fire Fighting Procedures:MOVE CNTNR FROM FIRE AREA W/O RISK.COOL CNTNR  
W/H2O SPRAY TIL WELL AFT FIRE IS OUT.STAY AWAY FROM TANKS  
ENDS.TK/RAIL CAR/TK TRUCK EVACUATION RADIUS:800M(SUPPLE)  
Unusual Fire/Explosion Hazard:NEGL FIRE

HAZ.CNTNR MAY RUPTURE/EXPLO IF  
EXPO TO HEAT.AVOID INHAL OF MATL/COMBUST BY-PROD.STAY UPWIND/KEEP  
OUT OF LOW AREAS.CONSIDER DOWNWIND EVACUATION IF LEAK

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

Spill Release Procedures:DONT TOUCH SPILLED MATL.STOP LEAK IF POSSIBLE  
W/O PERSONAL RISK.KEEP UNNECESSARY PEOPLE AWAY,ISOLATE HAZ AREA &  
DENY ENTRY.VENTILATE CLOSED SPACES BEF ENTERING.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE/HNDL IAW ALL CURRENT  
REGS/STDS.KEEP SEPARATED FROM INCOMPATIBLE SUBST.SUBJ TO STORAGE  
REGS:OSHA 29CFR1910.101.  
Other Precautions:MEASUREMENT METHOD:GAS COLLECTION BAG;GAS  
CHROMATOGRAPHY W/THERMAL CONDUCTIVITY DETECTOR;NIOSH III#S249.

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

Respiratory Protection:RESP/MAX USE CONC FRM NIOSH &/OR  
OSHA:10000PPM-ANY SUPP-AIR RESP;ANY SCBA  
W/FULL FCPC.ESCAPE-ANY  
APPRO ESCAPE-TYP SCBA.UNK CONC/IMMED DANGEROUS TO LIFE/HEALTH-ANY  
SUPP-AIR RESP W/FULL FCPC OPERATED IN DEMAND/OTH +PRESS MODE W/SEP  
ESCP(SUPP)  
Ventilation:BASED ON AVAI INFO ADDN VENTILATION IS NOT REQUIRED.ENSURE  
COMPLIANCE W/APPLICABLE EXPOSURE LIMITS.  
Protective Gloves:NOT REQUIRED BUT RECOMMENDED.  
Eye Protection:NOT REQUIRED BUT RECOMMENDED.  
Other Protective Equipment:FOR GAS:PROTECTIVE CLOTHING NOT REQUIRED.FOR  
LIQ:WEAR APPROP PROTECTIVE COLD INS  
ULATING CLOTHING.  
Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.  
Supplemental Safety and Health  
1ST AID:NORMAL SALINE TIL NO CHEM EVIDENCE REMAINS(@LEAST 15-20MINS).GET  
MED ATTN IMMED.INGEST:UNLIKELY EMERG TREAT WILL BE REQUIRE.GET MED  
ATTN IF NEEDED.NOTE TO DR:FOR INHAL CONSIDER OXY. FIREFIGHT:(  
1/2MI).APPLY H2O FRM PROT LOCAT/SAF DIST.DONT GET H2O DIRECTLY ON  
MATL.RED VAP W/H2O SPRAY. RESP:SUPP;ANY SCBA W/FCPC.

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

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HCC:G3

Boiling Pt:B.P. Text:N/AVAI

Melt/Freeze Pt:M.P/F.P Text:-71F,-57C

Decomp Temp:Decomp Text:>3092F,>170

Vapor Pres:43700 @21C

Vapor Density:1.5

Spec Gravity:1.522 @21C

pH:ACID

Viscosity:NP

Evaporation Rate & Reference:NA

Solubility in Water:SOLUBLE

Appearance and Odor:COLORLESS ODORLESS GAS W/SLIGHT ACIDIC TASTE;  
(ACIDIC IN SOLUTION).

Percent Volatiles by Volume:NA

Corrosion Rate:NP

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

Stability Indicator/

Materials to Avoid:YES

COMBUSTIBLE MATLS,OXIDZING MATLS,METALS SALTS,REDUCING AGENTS,METAL  
CARBIDE,METALS,BASES.

Stability Condition to Avoid:PROTECT FROM PHYSICAL DMG/HEAT.CNTNR MAY  
RUPTURE/EXPLO IF EXPO TO HEAT.AVOID CONTACT W/WATER OR MOISTURE.

Hazardous Decomposition Products:NONE SPECIFIED BY MANUFACTURER.

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

Waste Disposal Methods:DISPOSE OF IAW ALL APPLICABLE REGULATIONS.

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