

CARBONIC INDUSTRIES CORP -- CARBON DIOXIDE -- 6830-01-164-7430

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

Product ID:CARBON DIOXIDE

MSDS Date:06/18/1990

FSC:6830

NIIN:01-164-7430

MSDS Number: BLWDV

=== Responsible Party ===

Company Name:CARBONIC INDUSTRIES CORP

Address:3340 ROSEBUD RD

Box:960

City:LOGANVILLE

State:GA

ZIP:30249-9312

Country:US

Info Phone Num:404-979-0250

Emergency Phone Num:404-979-0250;80

0-424-9300(CHEMTREC)

CAGE:63140

=== Contractor Identification ===

Company Name:CARBONIC INDUSTRIES CORP

Address:ROSEBUD RD

Box:960

City:LOGANVILLE

State:GA

ZIP:30249-9312

Country:US

CAGE:63140

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

Ingred Name:CARBON DIOXIDE

CAS:124-38-9

RTECS #:FF6400000

Fraction by Wt: 1/0.5%

OSHA PEL:5000 PPM

ACGIH TLV:5000PPM/30000STEL;93

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

LD50 LC50 Mixture:NONE SPECIFIED BY

MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:A SIMPLE ASPHYXIAN. HIGH CONCS OF CO\*2 IN AMBIENT AIR CAN REDUCE OXYGEN CONTENT NEC TO SUPPORT LIFE. IN THE SOLID PHASE (DRY ICE), CONT W/BODY TISS WILL PRDCE COLD BURNS/FROSTBT W/IN SEV SEC. ACCRD T O CGA PAMPHLET#G-6, THE MAX EXPOS LIMITOF A HEALTHY MALE UNDER EXERCISING CNDTNS IN AIR HAVING A 7% CONC OF (SUPDAT)

Expl  
anation of Carcinogenicity:NOT RELEVANT

Effects of Overexposure:SHORTNESS OF BREATH, HEADACHE, DIZZINESS, WEAKNESS, DROWSINESS AND RINGING IN EARS. DRY ICE IN CONTACT W/BODY TISSUE PRODUCES A BURNING SENSATION; AND FROSTBITE OCCURS WITHIN SEVERAL SECONDS.

Medical Cond Aggravated by Exposure:ANY CONDITION THAT WOULD BE AGGRAVATED BY A REDUCED QUANTITY OF NORMAL QUALITY BREATHING AIR.

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

First Aid:INHAL: DO NOT ATT  
EMPT TO REMOVE AN INDIVIDUAL FROM THE SCENE  
OF AN OVEREXPOS W/O UTILIZING PROPER RESCUE EQUIP OR YOU MAY BECOME A CASUALTY. REMOVE VICTIM FROM CO\*2, PROVIDE PLENTY OF FRESH AIR WHILE KEEPING SUCH PERSON WARM/DRY/QUIET. IF BRTHG HAS STOPPED, PERFORM ARTF RESP. GET IMMED MED ATTN. INGEST: CALL MD IMMED . EYES: IMMED FLUSH W/POTABLE WATER FOR A MINIMUM OF 15 MIN, SEEK (SUPDAT)

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

Extinguishing Media:NOT APP  
LICABLE. USE MEDIA SUITABLE FOR SURROUNDING  
FIRE .  
Fire Fighting Procedures:NOT APPLICABLE. WEAR NIOSH/MSHA APPROVED SCBA & FULL PROTECTIVE EQUIPMENT .  
Unusual Fire/Explosion Hazard:CONFINEMENT OF CO\*2 IN VESSELS OR CONTAINERS OF IMPROPER DESIGN CAN RESULT IN EXPLOSION OR RUPTURE FROM OVER-PRESSURIZATION.

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

Spill Release Procedures:EVACUATE AREA OF SPILL OR RELEASE, EMPLOY EMER FIRST AID PROCEDURE, PROVIDE PL

ENTRY OF FRESH AIR. REMOVE DRY ICE  
RESIDUAL & ALLOW TO SUBLIME IN A SECURED, WELL-VENTILATED AREA &  
CONTACT THE MFR'S SAFETY DEPT.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:LIQUID AND VAPOR STORAGE CONTROLS ARE  
UNDER HIGH PRESS. DO NOT MISHANDLE OR ABUSE CONTROLS. USE ONLY CONTROLS  
& EQUIP SPECIFICALLY DESIGNED FOR CO<sub>2</sub>.  
Other Precautions:AVOID DIRECT SKIN CONTACT W/DRY ICE OR  
RE-VENTING CO<sub>2</sub>  
LIQUID OR VAPOR. USE PROTECTIVE EQUIPMENT & CLOTHING AND GET PROPER  
TRAINING BEFORE HANDLING CO<sub>2</sub>.

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

Respiratory Protection:NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING  
APPARATUS - USE IN STRICT ACCORDANCE W/THE MANUFACTURER'S  
RECOMMENDATIONS.  
Ventilation:LOCAL EXHST-PASSIVE SYSTEM: FLOOR LEVEL, OPENINGS TO  
OUTDOOR ATMOSPHERE. MECH (GEN)-ELEC FANS: REMOVE CO<sub>2</sub>. (SUPDAT)  
Protective Gloves:HEAVY  
DUTY-CLOTH TYPE.  
Eye Protection:CHEMICAL WORKERS GOGGLES .  
Other Protective Equipment:HARD HATS AND EAR PROTECTION SHOULD BE WORN  
WHEN WORKING W/PRESSURIZED CARBON DIOXIDE.  
Work Hygienic Practices:PERSONS HANDLING CARBON DIOXIDE SHOULD BE FULLY  
TRAINED IN ADVANCE.  
Supplemental Safety and Health  
SOL IN H<sub>2</sub>O: @60F AND 0 PSIG. 1 VOL OF CO<sub>2</sub> WILL DISSOLVE IN 1 VOL OF  
H<sub>2</sub>O. HLTH HAZ: CO<sub>2</sub> BY VOL IS LESS THAN 3 MIN. FIRST AID PROC:  
ASSISTANCE FROM MD . SKIN: FLUSH W/COPIOUS AMTS OF WA  
TER. CALL MD  
. VENT: FROM FLOOR & LOW AREAS - EXHAUST OUTDOORS. BE SURE HEAVY  
CO<sub>2</sub> VAPORS CAN'T ACCUMULATE.

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

Boiling Pt:B.P. Text:-109F,-79C  
Vapor Pres:838 PSIG  
Vapor Density:0.1234#/FT<sup>3</sup>  
Spec Gravity:1.5240  
Solubility in Water:VERY SOLUBLE(SUPDAT)  
Appearance and Odor:IN SOLID PHASE-TRANSLUCENT WHITE/ODORLESS.IN GAS &  
LIQ PHASE-COLORLESS/ODORLESS

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

Stability Indicator/Materials to Avoid: YES

NO DATA AVAILABLE.

Hazardous Decomposition Products: HEATING ABOVE 1700C CAUSES  
DECOMPOSITION TO CARBON MONOXIDE AND OXYGEN.

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

Waste Disposal Methods: ALLOW CO\*2 TO RELEASE, SUBLIME OR DISSIPATE IN  
THE OPEN AIR. AVOID RELEASING IN COURTYARDS OR ANY AREAS WHERE  
HEAVY CO\*2 VAPORS CAN ACCUMULATE. DISPOSAL MUST BE I/A/W FEDERAL,  
STATE, AND LOCAL REGULATIONS.

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