

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 ASPHYXIANT. 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

ENTY 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 CONTRS ARE
UNDER HIGH PRESS. DO NOT MISHANDLE OR ABUSE CONTRS. USE ONLY CONTRS
& EQUIP SPECIFICALLY DESIGNED FOR CO*2.

Other Precautions:AVOID DIRECT SKIN CONTACT W/DRY ICE O
R VENTING CO*2

LIQUID OR VAPOR. USE PROTECTIVE EQUIPMENT & CLOTHING AND GET PROPER
TRAINING BEFORE HANDLING CO*2.

=====
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*2. (SUPDAT)

Protective Gloves:HEAVY
TERRY-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*2O: @60F AND 0 PSIG. 1 VOL OF CO*2 WILL DISSOLVE IN 1 VOL OF
H*2O. HLTH HAZ: CO*2 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*2 VAPORS CAN'T ACCUMULATE.

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

Boiling Pt:B.P. Text:-109F,-79C

Vapor Pres:838 PSIG

Vapor Density:0.1234#/FT

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 CO₂ TO RELEASE, SUBLIME OR DISSIPATE IN
THE OPEN AIR. AVOID RELEASING IN COURTYARDS OR ANY AREAS WHERE
HEAVY CO₂ VAPORS CAN ACCUMULATE. DISPOSAL MUST BE I/A/W FEDERAL,
STATE, AND LOCAL REGULATIONS.

Disclaimer (provided with this information by the compiling agencies):
This information is formulated for use by elements of the Department
of Defense. The United States of America in no manner whatsoever,
expressly or implied, warrants this information to be accurate and
disclaims all liability for its use. Any person utilizing this
document should seek competent professional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.