

MATERIAL SAFETY DATA SHEET

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AMEREX CORPORATION
POST OFFICE BOX 81
TRUSSVILLE, ALABAMA 35173-0081

DATE PREPARED: 1/15/87

SUPERCEDES: 11/ 1/85

RESPONSIBLE PERSONS: D. EMERICH OR D. ELLISON
TELEPHONE: (205)655-3271

IDENTIFICATION

PRODUCT NAME: CARBON DIOXIDE

SYNONYMS: CO₂, Carbonic Acid, Carbonic Anhydride

HAZARDOUS INGREDIENTS

MATERIAL	CAS NO.	OSHA PEL	ACGIH TLV
Carbon Dioxide	124-38-9	5000 PPM	5000 PPM

OTHER INGREDIENTS

MATERIAL	CAS NO.
None	

PHYSICAL AND CHEMICAL CHARACTERISTICS

BOILING POINT (°F): -109	SPECIFIC GRAVITY (H ₂ O=1): NA	VAPOR PRESSURE (MM HG): At 70°F Gas
PERCENT VOLATILE (%): 100	VAPOR DENSITY (AIR = 1): 1.52	EVAPORATION RATE: High
SOLUBILITY IN WATER: .8v/vH ₂ O	REACTIVITY IN WATER: NA	MELTING POINT (°F): NA
pH: NA	APPEARANCE & ODOR: Colorless liquid or gas. No odor.	
FLASH POINT(°F): NA	AUTO IGNITION TEMPERATURE(°F): NA	FLAMMABLE LIMITS IN AIR BY VOL.: NA
EXTINGUISHER MEDIA: None. This material is an extinguishing agent.		
SPECIAL FIRE FIGHTING PROCEDURES: None		
UNUSUAL FIRE AND EXPLOSION HAZARDS: None		

PHYSICAL HAZARDS

STABILITY: Stable	CONDITIONS TO AVOID: NA
INCOMPATIBILITY (MATERIALS TO AVOID): Chemically active metals, such as Sodium, Potassium, Hot Titanium	
HAZARDOUS DECOMPOSITION PRODUCTS: None	
HAZARDOUS POLYMERIZATION: Will not occur	
CONDITIONS TO AVOID: NA	

HEALTH EFFECTS AND FIRST AID

EFFECTS OF ACUTE OVEREXPOSURE FOR PRODUCT:

- EYES: Contact with liquid or solid will cause burns, frost-bite, or blindness.
- SKIN: Contact with liquid or solid will cause burns or frost-bite.
- BREATHING: Slightly toxic asphyxiant.
- SWALLOWING: Not likely.

FIRST AID:

- IF IN EYES: Treat areas exposed to solid or liquid as frostbite. Seek medical attention.
- IF ON SKIN: Treat areas exposed to solid or liquid as frostbite. Seek medical attention.
- IF BREATHED: Provide fresh air or oxygen. If symptoms persist, seek medical attention.
- IF SWALLOWED: Treat areas exposed to solid or liquid as frostbite. Seek medical attention.

PRIMARY ROUTES OF ENTRY:

Eyes, Skin Contact, Breathing

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

None known

EFFECTS OF CHRONIC OVEREXPOSURE FOR PRODUCT:

High concentrations can paralyze respiratory center. Increased inhalation will cause increased breathing rate. Unconsciousness and death may result.

PRODUCT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

NATIONAL TOXICOLOGY PROGRAM	[] YES [X] NO	IARC MONOGRAPHS	[] YES [X] NO	OSHA	[] YES [X] NO
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CONTROL MEASURES AND PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION (TYPE):

Use self-contained breathing apparatus or airline respirators when CO₂ has been released and has diminished the oxygen content below 19%.

VENTILATION: GENERAL AREA: Recommended
LOCAL EXHAUST: Recommended

SKIN PROTECTION:

Use insulated gloves when handling as liquid or solid.

EYE PROTECTION:

Safety Glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

None required.

WORK/HYGIENE PRACTICES:

Use good personal hygiene and good housekeeping practices.

SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Store away from direct heat or open flame.

OTHER PRECAUTIONS:

None

STEPS TO BE TAKEN IN CASE PRODUCT IS RELEASED OR SPILLED:

Leaks will dissipate rapidly and harmlessly to atmosphere. For confined areas remove all personnel and ventilate area. Vent to atmosphere in open area.

HMIS RATINGS:

HEALTH 1
FLAMMABILITY 0
REACTIVITY 0

HMIS HAZARD INDEX	
0	MINIMAL
1	SLIGHT
2	MODERATE
3	SERIOUS
4	SEVERE