DATE PREPARED: 8-1-91

MATERIAL SAFETY DATA SHEET

AMEREX CORPORATION

P. O. BOX 81, TRUSSVILLE, AL 35173-0081 ESPONSIBLE PARTY: MSDS COORDINATOR

 TELEPHONE: 205-655-3271
 SUPERSEDES: 6-22-88

 EMERGENCY TELEPHONE NO. DAY/NIGHT:
 CHEMTREC 1-800-424-9300

IDENTIFICATION

PRODUCT NAME: CARBON DIOXIDE SYNONYMS: CO2, CARBONIC ACID, CARBONIC ANHYDRIDE

		HAZ	ARDOUS I	NGREDIENT	S			
		OSHA PELS		ACGIH TLV				
		TWA	STEL	/CEIL	TW	A	STEL/CEIL	
MATERIAL	CAS NO.	ppm mg	/m3 ppm	mg/m3	ppm i	mg/m3 , f	opm mg/m3	•
Carbon Dioxide	124-38-9	10,000 18,	000 30,000	54,000	5,000	9,000 30	0,000 54,000	

OTHER INGREDIENTS			
NONE			

	PHYSICAL AND CHEMICAL CHARAC	TERISTICS		•	
BOILING POINT (^O F): -109	SPECIFIC GRAVITY(H ₂ 0 = 1): NA VAPOR PRES		SURE (MM HG): At 70 ° F Gas		
PERCENT VOLATILE (%): 100	VAPOR DENSITY (AIR = 1): 1.52	EVAPORATION RA	TE: High		
DLUBILITY IN WATER: .8v/v H20	REACTIVITY IN WATER: NA	MELTING POINT(^o F): NA	4	C.	
pH: NA	APPEARANCE & ODOR: Colorless liquid or	gas. No odor.	4	۲	
FLASH POINT (^O F): None	AUTO IGNITION TEMPERATURE (^o F): NA	FLAMM	FLAMMABLE LIMITS IN AIR BY VOL: NA		

SPECIAL FIRE FIGHTING PROCEDURES: None.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None.

PHYSICAL HAZARDS

STA2:LITY: 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

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	н	EALTH EFFE	CTS AND FIRST AID			
EFFECTS OF ACI	JTE OVEREXPOSURE FOR PRODUCT:					
EYES:	Contact with liquid or solid will cause	burns, frostbite	, or blindness.			*
SKIN:	Contact with liquid or solid will cause	burns or frostbi	te.			ν τ' they
BREATHING:	Slightly toxic asphyxiant.					4, v
SWALLOWING:	Not likely.					
FIRST AID:				de .		
IF IN EYES:	Treat areas exposed to solid or liquid	as frostbite. Se	ek medical attention.	10		4
IF ON SKIN:	Treat areas exposed to solid or liquid	as frostbite. Se	ek medical attention.			Philip -
IF BREATHED:	Provide fresh air or oxygen. If symple	oms persists, se	ek medical attention.			
IF SWALLOWED:	Treat areas exposed to solid or liquid	as frostbite. Se	ek modical attention.			
PRIMARY ROUTE	S OF ENTRY: Eyes, Skin Contact, Brea	thing		يحر		
MEDICAL CONDIT	FIONS GENERALLY AGGRAVATED BY	EXPOSURE: No	ne known.	· · · · · · · · · · · · · · · · · · ·		
EFFECTS OF CHI	RONIC OVEREXPOSURE FOR PRODUC	CT: High concer	trations can paralyze respiratory	center. Increased	inhalation will	cause
	ng rate. Unconsciousness and death m			1 ×		
PRODUC	LISTED AS CARCINOGEN OR POTEN	ITIAL CARCINO	GEN:			
	NATIONAL TOXICOLOGY PROGRAM:	[]YES	IARC MONOGRAPHS:	[]YES	OSHA:	[]YES
		[X] NO		[X] NO		[X] NO

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 CAL EXHAUST: Recommended

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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:		HMIS HAZARD IN	NDEX:	
		MINIMAL	0	
HEALTH	1	SLIGHT	1	
FLAMMABILITY	0	MODERATE	2	<
REACTIVITY	0	SERIOUS	3	
		SEVERE	4	1
				- 1

The information provided herein is offered in good faith and is to the best of our knowledge current. Although certain hazards are described herein we cannot state that these are the only hazards which exist. Final determination of suitability and safe usage of this material is the sole responsibility of the user who is obligated to review this data in the specific context of the intended use and determine appropriateness. No guarantee is implied or expressed regarding the accuracy of this information or the use of this material since the conditions of use are beyond our control.