MATERIAL SAFETY DATA SHEET 66632

AMEREX CORPORATION POST OFFICE BOX 81 TRUSSVILLE, ALABAMA 35173-0081 DATE PREPARED: $\frac{1}{15}/\frac{87}{8}$

SUPERCEDES: 11/1/85

RESPONSIBLE PERSONS: D. EMERICH OR D. ELLISON

TELEPHONE:

(205)655-3271

IDENTIFICATION		
PRODUCT NAME: HALON 1211		
SYNONYMS: Bromochlorodifluoromethane, BCF		

HAZARDOUS INGREDIENTS				
MATERIAL	CAS NO.	OSHA PEL	ACGIH TLV	
Bromochlorodifluoromethane	353-59-3	Unknown	Not listed	

	OTHER ING	REDIENTS	
	MATERIAL		 CAS NO.
None			· · .
		•	 <u> </u>

PHYS	ICAL AND CHEMICAL CHARACTER	ISTICS
BOILING POINT (°F): 26	SPECIFIC GRAVITY (H ₂ 0=1): 1.83 (liquid)	VAPOR PRESSURE (MM HG): 778 @ 60 ⁰ F
PERCENT VOLATILE (%): 100	VAPOR DENSITY (AIR = 1): 5.7	EVAPORATION RATE: High
SOLUBILITY IN WATER: 0	REACTIVITY IN WATER: NA	MELTING POINT (^O F): NA
pH: no data	APPEARANCE & ODOR: Colo with	rless gas and liquid very faint, sweet odor.
FLASH POINT(^O F): None	AUTO IGNITION TEMPERATURE(OF): NA	FLAMMABLE LIMITS IN AIR BY VOL.: NA
EXTINGUISHER MEDIA: None. This materia	al is an extinguishing agen	t.
SPECIAL FIRE FIGHTING Self-contained breaction of the second seco	PROCEDURES: athing apparatus with full ntering unventilated fire a	facepiece and protective reas where product has
releasing bromide such as halogen acther harmful if inhaled unpleasant, acrid	discharged onto a fire, it ions, the extinguishing age ids, are also formed. Thes, are easily detected. Only odor which serves as a warn is discharged, the area shou	nt. Halogen compounds, e by-products, although y a few PPM create an ing to the user. After

·	PHYSICAL HAZARDS
STABILITY: Stable	CONDITIONS TO AVOID: Decomposes under fire conditions
INCOMPATIBILITY (MATERI Active metals such metal hydrides	ALS TO AVOID): as powdered alumina and magnesium and fires of
HAZARDOUS DECOMPOSITION Decomposes above 90 amounts of carbonyl	O ^o F to give free halogens, halogen acid and small
HAZARDOUS POLYMERIZATIO Will not occur	N:
CONDITIONS TO AVOID:	

[] YES [X] NO

OSHA

HEALTH EFFECTS AND FIRST AID EFFECTS OF ACUTE OVEREXPOSURE FOR PRODUCT: EYES: The liquid form of this material can produce chilling sensations and discomfort. SKIN: Evaporation of liquid from the skin can produce chilling sensations. BREATHING: Exposures for more than a few minutes above 4% (171 1bs/1000 cu. ft. air) concentration can produce dizziness, impaired coordination, and cardiac effects. SWALLOWING: Not likely to occur since this material is a gas at room temperature. FIRST AID: IF IN EYES: Flush with water for 15 minutes. If redness, itching, or a burning sensation develops, have eyes examined and treated by medical personnel. IF ON SKIN: Wash with soap and water. If redness, itching, or a burning sensation develops, seek medical attention. IF BREATHED: Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel. IF SWALLOWED: Give 1 or 2 glasses of warm water to drink and seek medical attention. PRIMARY ROUTES OF ENTRY: Eyes, Skin Contact, Breathing MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: In susceptible individuals, cardiac sensitization to circulating epinephrine compounds can result in potentially fatal heart arrhythmias. EFFECTS OF CHRONIC OVEREXPOSURE FOR PRODUCT: Unknown PRODUCT LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN:

TARC

MONOGRAPHS [X] NO

7 YES

וון אַ דֿ אַ

NATIONAL TOXICOLOGY [

PROGRAM

CONTROL MEASURES AND PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION (TYPE):

Not normally needed. If needed, use MSHA/NIOSH approved respirator for organic vapors.

VENTILATION: GENERAL AREA:

INAL ANLA.

Recommended

LOCAL EXHAUST: Re

Recommended

SKIN PROTECTION:

EYE PROTECTION:

Impervious Gloves for Liquid Exposure

Safety Glasses

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

Eye wash station and safety shower in work area when working with liquified product.

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 in a cool area with good ventilation. Keep vapors away from high temperature surfaces to avoid toxic and corrosive decomposition products.

OTHER PRECAUTIONS:

Enforce "No Smoking" rules in areas of use.

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

Ventilate spill area and recover any liquid.

HMIS RATINGS:		HMIS HAZARD INDEX	
		MINIMAL	
HEALTH	2	SLIGHT 1	
FLAMMABILITY	0-	MODERATE 2	
REACTIVITY	- 0-	SERIOUS 3	
		SEVERE 4	