View NSN Online: https://aerobasegroup.com/nsn/4210-01-458-6685 AMEREX CORPORATION -- HALON 1211 -- 4210-01-458-6685 ============ Product Identification ========================= Product ID:HALON 1211 MSDS Date:03/01/2001 FSC:4210 NIIN:01-458-6685 Status Code:A MSDS Number: CLMLW === Responsible Party === Company Name: AMEREX CORPORATION Address:7595 GADSDEN HWY E Box:81 City:TRUSSVILLE State:AL ZIP:35173-0081 Country:US Info Phone Num: 205-655-3271 Emergency Phone Num:205-655-3271 800-4 24-9300 Chemtrec Ind/Phone:(800)424-9300 CAGE:54905 === Contractor Identification === Company Name: AMEREX CORPORATION Address:7595 GADSDEN HWY E Box:81 City:TRUSSVILLE State:AL ZIP:35173-0081 Country:US Phone: 205-655-3271 CAGE:54905 ======= Composition/Information on Ingredients ======== Ingred Name:BROMOCHLORODIFLUOROMETHANE CAS:353-59-3 RTECS #:PA5270000 = Wt:100.============= Hazards Identification ========================

LD50 LC50 Mixture:LCLO(INHALATION-RAT)= 320,0

00 PPM/15 MIN

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic: THIS GAS IS A SIMPLE ASPHYIANT.

CONTACT WITH LIQUID OR EXPANDING GAS MAY CAUSE BURNS OR FROSTBITES. THIS PRODUCT IS NOT KNOWN TO CAUSE ANY CHRONIC ILLNESSES OR

DISEASES. TARGET ORGANS RESPIRATORY SYST EM, SKIN, EYES.

Explanation of Carcinogenicity: THIS PRODUCTS INGREDIENTS ARE NOT FOUND ON THE FOLLOWING LISTS: FEDERAL OSHA Z LI

ON THE FOLLOWING LISTS: FEDERAL OSHA Z L ST, NTP, CAL/OSHA, OR

ÍARC.

Effects of Overexposure:BROMOCHLORODIFLUOROMETHANE: THIS GAS IS A SIMPLE ASPHYIANT. INDIVIDUALS MAY EXPERIENCE DIZZINESS, DROWSINESS, UNCONSCIOUSNESS AND DEATH, IMPAIRED COORDINATION AND CARDIAC EFFECTS. THIS PRODUCT MAY CAU SE MILD SKIN AND MODERATE EYE IRRITATION, FROSTBITES UPON CONTACT WITH LIQUID OR RAPIDLY EXPANDING GASES.

Medical Cond Aggravated by Exposure: CONTACT WITH THIS PRODUCT MAY AGGRAVATE PRE-EXISTING RESPIRATORY CONDITIONS.

RECOMMENDATIONS TO

PHYSICIANS: TREAT PATIENT SYMPTOMS, ADMINISTER OXYGEN, AS NECESSARY.

First Aid:INHALATION: REMOVE VICTIMS TO FRESH AIR, AS QUICKLY AS POSSIBLE. TRAINED PERSONNEL SHOULD ADMINISTER SUPPLEMENTAL OXYGEN AND/OR CARDIO-PULMONARY RESUSCITATION, IF NECESSARY. IN CASE OF FROSTBITE, PLAC E FROSTBITTEN PART IN WARM WATER. IF WARM WATER IS NOT AVAILABLE, OR IMPRACTICAL, WRAP AFFECTED PARTS GENT LY IN

BLANKETS. IF EXPOSURE CAUSES OBVIOUS DISTRESS, VICTIM(S) AND RESCUERS MUST BE TAKEN FOR MEDICAL ATTENTION. TAKE COPY OF LABEL/MSDS TO PHYSICIAN W/VICTIM.

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

Autoignition Temp: Autoignition Temp Text: NOT AP

Lower Limits:NOT APPLICAB Upper Limits:NOT APPLICAB

Extinguishing Media: NONE. THIS PRODUCT IS A FIRE EXTINGUISHING AGENT.

Fire Fighting Procedures: KEEP UNUSED CYLINDERS COOL USING A WATER SPRAY. STRUCTURAL

FIRE FIGHTERS MUST WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:WHEN INVOLVED IN A FIRE, CYLINDERS MAY RUPTURE VIOLENTLY, CAUSING A HIGH PRESSURE RELEASE OF GASES. WHEN HALON 1211 IS DISCHARGED ONTO A FIRE, IT DECOMPOSES AND RELEASES HALOGEN COMPOUNDS (I.E. CHLORI DES, BROMIDES, FLUORIDES), WHICH ARE IRRITATING TO THE HUMAN RESPIRATORY SYSTEM.

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

Spill R

elease Procedures:UNCONTROLLED RELEASES SHOULD BE RESPONDED TO BY TRAINED PERSONNEL USING PRE-PLANNED PROCEDURES. PROPER PROTECTIVE EQUIP SHOULD BE USED. IN CASE OF RELEASE, CLEAR AFFECTED AREA, PROTECT PEOPLE, RESPOND W/TRAINED PERSONNEL WEARING SELF-CONTAINED BREATHING APPARATUS, MONITOR SURROUNDING AREA FOR OXYGEN CONTENT. ATMOSPHERE MUST HAVE AT LEAST 19.6% OXYGEN BEFORE ALLOWED ENTRY IN AREA. VENTILATE AREA.

	Handling	and	Storage	========	

Handling and Storage Precautions:ALL EMPLOYEES WHO HANDLE THIS MATERIAL SHOULD BE TRAINED TO HANDLE IT SAFELY. KEEP CYLINDERS IN DRY, WELL-VENTILATED AREAS WHICH ARE AWAY FROM SOURCES OF HEAT. KEEP CYLINDERS SECURE. MAKE CERTAIN APPL ICATION EQUIPMENT IS LOCKED AND TAGGED-OUT SAFELY.

Other Precautions:ALWAYS USE THIS PRODUCT IN AREAS WHERE ADEQUATE VENTILATION IS PROVIDED. DECONTAMINATE EQUIPMENT USING SOAPY WATER BEFORE MAINTENANCE BEGINS. COLLECT ALL RINSAT

ES AND DISPOSE OF

ACCORDING TO APPLICABL E FEDERAL, STATE, OR LOCAL PROCEDURES.

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

Respiratory Protection: USE SUPPLIED AIR RESPIRATORY PROTECTION IF OXYGEN LEVELS ARE 19.5%

Ventilation: USE WITH ADEQUATE VENTILATION. USE A MECHANICAL FAN OR VENT AREA TO OUTSIDE.

Protective Gloves: NONE NORMALLY REQUIRED.

Eye Protection: SAFETY GLASSES.

Other Protective Equipment: USE BODY PROTECTION APPROPRIATE FOR TASK.

Work Hygienic Pra

ctices:AVOID GETTING CHEMICALS ON YOU OR IN YOU. WASH HANDS AFTER HANDLING CHEMICALS. DO NOT EAT, DRINK, OR SMOKE WHILE HANDLING CHEMICALS.

Supplemental Safety and Health

BE AWARE OF ANY SIGNS OF DIZZINESS OR FATIGUE; EXPOSURES TO FATAL CONCENTRATIONS OF THIS PRODUCT COULD OCCUR WITHOUT ANY SIGNIFICANT WARNING SYMPTOMS.

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

HCC:G3

Boiling Pt:=-3.3C, 26.F

Melt/Freeze Pt:M.P/F.P Text:NOT AVAILABLE

Decomp Temp:Decomp Text:NOT AVAILABLE

Vapor Pres:778 MM HG@ 15.6

Vapor Density:5.7 Spec Gravity:1.83

Solubility in Water: INSOLUBLE

Appearance and Odor:COLORLESS LIQUID AND ASSOCIATED GAS HAS A FAINT, SWEET ODOR.

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

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS, SUCH AS POWDERED ALUMINA AND MAGNESIUM.

Stability Condition to Avoid: INCOMPATIBLE MATERIALS.

Hazardous Decomposition Products:WHEN HALON 1211 IS DISCHARGED INTO A FIRE, I

T DECOMPOSES ABOVE 900 DEGREES F, RELEASING BROMIDE IONS (EXTINGUISHING AGENT). HALOGEN COMPOUNDS, SUCH AS HALOGEN ACIDS ARE ALSO FORMED.

Conditions to Avoid Polymerization: WILL NOT OCCUR.

======== Toxicological Information ==========

Toxicological Information:INHALATION: LCL0 (RAT) = 320,000 PPM/15 MIN.

MUTATION IN MICROORGANISM TEST: 100,000 PPM. MICROSOMAL

MUTAGENICITY TEST: 50,000 PPM. THIS PRODUCT IS NOT KNOWN TO CAUSE SENSITIZATION, MUTAGENIC, TE

EFFECTS.
======== Ecological Information ===========
Ecological:HALOGENATED HYDROCARBONS ARE PERSISTENT AND CONTRIBUTE TO DEPLETION OF OZONE OF OZONE IN THE UPPER ATMOSPHERE. ALL SYSTEMS MUST BE DESIGNED TO PREVENT ACCIDENTAL ENVIRONMENTAL CONTAMINATION. EFFECT ON PLANTS AND ANIMALS: NONE CURRENTLY KNOWN. EFFECT ON AQUATIC LIFE: NOT EXPECTED TO HARM AQUATIC LIFE.
======= Disposal Considerations ==
Waste Disposal Methods:WASTE DISPOSAL MUST BE IN ACCORDANCE WITH APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATIONS. THIS PRODUCT, IF UNALTERED BY USE, MAY BE DISPOSED OF BY TREATMENT AT A PERMITTED FACILITY OR AS ADVISED BY YOUR LOCAL HAZARDOUS WASTE REGULATORY AUTHORITY. RESIDUE FROM FIRES EXTINGUISHED WITH THIS MATERIAL MAY BE HAZARDOUS.
======== MSDS Transport Information ==========
Transport Information:PSN: FIRE EXTINGUISHERS
(BROMOCHLRODIFLUOROMETHANE), 2.2, UN1044.
========== Regulatory Information ===========
SARA Title III Information:SARA TPQ: N/A. CERCLA RQ: N/A. Federal Regulatory Information:TSCA INVENTORY STATUS: THIS MATERIAL IS LISTED ON THE TSCA INVENTORY. State Regulatory Information:CALIFORNIA PROPOSITION 65: BROMOCHLORODIFLUOROMETHANE IS NOT LISTED ON THE CALIFORNIA PROPOSITION 65 LIST.
========== Other Information ============
Dis claimer (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

RATO GENIC OR REPRODUCTIVE TOXICITY

particular situation.