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ICI AMERICAS INC, FIRE FIGHTING CHEMICALS DIV -- BCF, HALON 1211 -- 4210-01-297-5641

============ Product Identification ==============

Product ID:BCF, HALON 1211

MSDS Date:02/10/1989

FSC:4210

NIIN:01-297-5641

MSDS Number: BMQVV === Responsible Party ===

Company Name: ICI AMERICAS INC, FIRE FIGHTING CHEMICALS DIV

Address: NEW MURPHY RD AND CONCORD PIKE

City:WILMINGTON

State:DE ZIP:19897 Country:US

Info Phone Num:30

2-575-3000

Emergency Phone Num:302-575-3000

CAGE:1AT55

=== Contractor Identification ===

Company Name: BADGER PRECISION SPRINGS INC

CAGE:7Y859

Company Name:ICI AMERICAS INC. (FILM DIVISION) Address:NEW MURPHY ROAD AND CONCORD PIKE

Box:City:WILMINGTON

State:DE ZIP:19897 Country:US

Phone:302-575-3000

CAGE:1AT55

======= Composition/Information on Ingredients ========

Ingred Name:BROMOCHLORODIFLUOROMETHANE

CAS:353-59-3

RTECS #:PA5270000 Fraction by Wt: 100%

Other REC Limits: NONE SPECIF

========= Hazards Identification ============================

LD50 LC50 Mixture:LC50 INH RAT 211 MG/L

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

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

Health Hazards Acute and Chronic:INHALATION: VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF B REATH, AND MAY LEAD TO NA

RCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OF DEATH. SKIN/EYE: LIQUID CAN DEFAT TISSUE.

Explanation of Carcinogenicity:THIS COMPOUND IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. LIQUID IS NOT CORROSIVE O R AN IRRITANT, BUT CAN CAUSE DEFATTING OF TISSUE.

## Medical Con

d Aggravated by Exposure:IN SUSCEPTIBLE INDIVIDUALS, CARDIAC SENSITIZATION TO CIRCULATING EPINEPHRINE COMPOUNDS CAN RESULT IN POTENTIALLY FATAL HEART ARRHYTHMIAS.

First Aid:INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. EYE: FLUSH WITH WATER. SKIN: FLUSH WITH WATER. IF IRRITA

TIONPERSISTS, GET

MEDICAL ATTENTION. ORAL: GET MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING AS THE HAZARD OF ASPIRATING INTO THE LUNGS IS TOO GREAT.

Extinguishing Media: USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL AS APPROPRIATE FOR SURROUNDINGS. MATERIAL IS AN EXTINGUISHER.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A FULL FACED SELF CONTAINED BREATHING APPAR

FIRE EXPOSED CONTAINERS WITH WATER SPRAY. Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS INCLUDING HYDROGEN HALIDES AND HALOGENS.
======== Accidental Release Measures ==========
Spill Release Procedures:VENTILATE ENCLOSED AREAS IN CASE OF INADVERTENT OR DELIBERATE DISCHARGE OF HALON 1211.  Neutralizing Agent:NONE
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Handling and Storage Precautions:STORE IN A CLEAN, COOL, DRY AND WELL-VENTILATED AREA OF LOW FIRE RISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP CLOSED.  Other Precautions:AVOID BREATHING VAPOR, LIQUID CONTACT WITH EYES, SKIN OR CLOTHING. TANK-CLEANING PERSONNEL SHOULD USE ONLY FORMAL TANK ENTRY PROCEDURE BASED ON RECOGNIZED SAFETY PRINCIPLES. EMPTY CONTAINERS MAY CONTA IN PRODUCT RESIDUES/VAPORS.
======= Exposure Controls/Personal Protection == ========
Respiratory Protection:NONE REQUIRED FOR ADEQUATELY VENTED WORK SITUATIONS. FOR ACCIDENTAL OR NON-VENTILATED SITUATIONS, USE A SELF- CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR, APPROVED BY NIOSH.  Ventilation:PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER.  Protective Gloves:NONE SPECIFIED BY MANUFACTURER.  Eye Protection:NONE SPECIFIED BY MANUFACTURER.  Other Protective Equipment:USE IMPERV IOUS CLOTHING IF THERE IS REPEATED OR PROLONGED CONTACT WITH LIQUID.  Work Hygienic Practices:REMOVE AND WASH CLOTHING PROMPTLY UPON CONTAMINATION. USE ORDINARY GOOD HYGIENE AND GOOD HOUSEKEEPING. Supplemental Safety and Health AVOID DIRECT CONTACT.
======== Physical/Chemical Properties =========
HCC:N1 Boiling Pt:B.P. Text:26 Vapor Pres:778 @60F Vapor Density:5.7

ATUS. EVACUATE AREA. COOL

Spec Gravity:1.83
Solubility in Water:INSOLUBLE
Appearance and Odor:COLORLESS GAS AND LIQUID WITH VERY

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Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, MATERIAL CONTAINING OXYGEN, ACTIVE METALS, FIRES OF METAL HYDRIDES.

Stability Condition to Avoid:HIGH HEAT, OPEN FLAMES AND OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROCHLORIC AND HYDROFLUORIC ACIDS.

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sposal Considerations	

Waste Disposal Methods: COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. MATERIAL USUALLY DISPERSES IN THE ATMOSPHERE.

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