

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:3

02-575-3000

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 SPECI

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===== 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 BREATH, AND MAY LEAD TO

NARCOSIS, 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 OR AN IRRITANT, BUT CAN CAUSE DEFATTING OF TISSUE.

Medical Co

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

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===== First Aid Measures =====

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 IRRIT

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

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

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 APPA

RATUS. EVACUATE AREA. COOL

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

===== Handling and Storage =====

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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 CONTAIN PRODUCT RESIDUES/VAPORS.

===== Exposure Controls/Personal Protection =

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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 IMPER
VIOUS 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

Spec Gravity:1.83

Solubility in Water:INSOLUBLE

Appearance and Odor:COLORLESS GAS AND LIQUID WITH VERY

FAINT SWEET ODOR

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

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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Disposal 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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