

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

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Product Identification
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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

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Composition/Information on Ingredients
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Ingred Name:BROMOCHLORODIFLUOROMETHANE

CAS:353-59-3

RTECS #:PA5270000

Fraction by Wt: 100%

Other REC Limits:NONE SPECIF

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Hazards Identification
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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 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 OR 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.

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First Aid Measures
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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.

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Fire Fighting Measures
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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

ATUS. 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 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

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.

===== 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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