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Product Identification  
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Product ID:BFC (HALON 1211)

MSDS Date:09/16/1988

FSC:4210

NIIN:01-100-9086

MSDS Number: BGLVG

=== 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

Emergency Phone Num:(302)575-3000

CAGE:1AT55

=== Contractor Identification ==

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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%

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

Reports of Carcinogenicity:NTP:NO IARC:

NO OSHA:NO

Health Hazards Acute and Chronic:PRODUCT IS GAS AT ROOM TEMPERATURE.

CONTACT WITH THE LIQUID MAY CAUSE FROSTBITE. PRODUCT IS TOXIC AT  
CONCENTRATIONS ABOVE 4% FOR OVER 1 MINUTE.

Explanation of Carcinogenicity:NOT LISTED

Effects of Overexposure:EYE:CHILLING SENSATION,FROSTBITE. SKIN:CHILLING  
SENSATION,FROSTBITE. INHALED:DIZZINESS,HEADACHE,NAUSEA,IMPAIRED  
COORDINATION,UNCONSCIOUS. CARDIAC IRREGULARITIES IF ON EPINEPHRINE  
TYPE DRUGS.

Medical Cond Aggravated by Exposure

:ANY MEDICAL CONDITION AFFECTING  
SAME ORGANS AS THOSE AFFECTED BY OVEREXPOSURE.

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

First Aid:EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES,SEE  
DOCTOR;SKIN:WASH WITH SOAP&WATER.IF IRRITATION PERSISTS,SEE  
DOCTOR;INHALATION:REMOVE TO FRESH AIR,GIVE CPR/OXYGEN IF NEEDED,SEE  
DOCTOR;INGESTION:GIVE 1 O 2 GLASSES OF WATER,DO NOT INDUCE  
VOMIT.LIE DOWN & KEEP WARM.SEEK MEDICAL ATTENTION.

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

Flash Point:NONE  
Autoignition Temp:Autoignition Temp Text:NONE  
Extinguishing Media:USE WATER TO COOL FIRE EXPOSED CYLINDERS OR OTHER  
CONTAINERS.  
Fire Fighting Procedures:SCBA WITH FULL FACEPIECE & PROTECTIVE CLOTHING  
WHEN RE-ENTERING UNVENTILATED FIRE AREAS WHERE PRODUCT HAS BEEN  
USED.  
Unusual Fire/Explosion Hazard:WHEN BCF IS DISCHARGED INTO A FIRE IT  
DECOMPOSES ABOVE 900F, RELEASING BROMIDE IONS.HALOGEN  
COMPOUNDS,SUCH AS  
HALOGEN ACIDS ARE ALSO  
FORMED.VACATEAREA&VENTILATE

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

Spill Release Procedures:VENTILATE AREA AND RECOVER ANY LIQUID.VAPOR IS  
HEAVIER THAN AIR &CAN CAUSE SUFFOCATION BY REDUCING AVAILABLE  
OXYGEN.PROTECT AGAINST FROSTBITE FROM EVAPORATING LIQUID.

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

Handling and Storage Precautions:STORE IN A COOL AREA WITH GOOD  
VENTILATION.KEEP VAPORS AWAY FROM HIGH TEMPERATURE SURFACES TO  
AVOID TOXIC & CORROSIVE DECOMPOSITION PRODUCTS.  
Other Precautions:ENFORCE "NO SMOKING" RULES IN AREAS OF USE.

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

Respiratory Protection:NOT NORMALLY NEEDED.IF NEEDED,USE MSHA/NIOSH  
APPROVED RESPIRATOR FOR ORGANIC VAPORS.FOR HIGH CONCENTRATIONS &  
OXYGEN-DEFICIENT ATMOSPHERES,USE POSITIVE PRESSURE AIR-SUPPLIED  
RESPIRATOR.  
Ventilation:VENTILATE LOW-LYING AREAS,SUCH AS,SUMPS OR PITS WHERE DEN

SE

VAPORS MAY COLLECT. USE LOCAL EXHAUST TO CONTROL EXPOSURES.

Protective Gloves: IMPERVIOUS GLOVES

Eye Protection: CHEMICAL TIGHT GOGGLES & FACESHIELD

Other Protective Equipment: IMPERVIOUS APRON. EYEWASH STATION & SAFETY SHOWER.

Work Hygienic Practices: STANDARD HYGENIC PRACTICES

Supplemental Safety and Health

HEALTH HAZARDS CONT D: CAN RESULT IN POTENTIALLY FATAL HEART IRREGULARITIES.

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

HCC: G3

Boiling Pt: B.P. Text: 26F

, -3C

Vapor Pres: 15 PSI

Vapor Density: 5.7

Spec Gravity: 1.83

Solubility in Water: INSOLUBLE

Appearance and Odor: COLORLESS GAS OR COLORLESS VOLATILE LIQUID WITH VERY FAINT SWEET ODOR.

Percent Volatiles by Volume: 100

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

Stability Indicator/Materials to Avoid: YES

ACTIVE METALS SUCH AS POWDERED ALUMINUM & MAGNESIUM, AND FIRES OF METAL HYDRIDES.

Stability Condition to Avoid: DECOMPOSES UNDER FIRE CONDITIONS (ABOVE 900F, 482C)

Haz

ardous Decomposition Products: FREE HALOGENS, HALOGEN ACIDS, AND SMALL AMOUNTS OF CARBONYL HALIDES.

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