

ICI AMERICAS INC./FIRE FIGHTING CHEMICALS DIV. -- BFC (HALON 1211) -- 4210-01-100-9086

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

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 Pho

ne Num:(302)575-3000

CAGE:1AT55

=== Contractor Identification ===

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%

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

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.

#### ===== 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;ING ESTION:GIVE 1 O 2 GLASSES OF WATER,DO NOT INDUCE VOMIT .LIE DOWN & KEEP WARM.SEEK MEDICAL ATTENTION.

#### ===== 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 A

BOVE 900F, RELEASING BROMIDE IONS.HALOGEN COMPOUNDS,SUCH AS HALOGEN ACIDS ARE ALSO FORMED.VACATEAREA&VENTILATE

#### ===== 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.

#### ===== 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.

===== 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.

Venti  
lation:VENTILATE LOW-LYING AREAS,SUCH AS,SUMPS OR PITS WHERE DENSE  
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)

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

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