

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 Ph

one 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 O

N 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 VOMI

T.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

ABOVE 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 I

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.

Vent

ilation: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/Chemica

l 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.

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department  
of Defense. The United States of America in no manner whatsoever,  
expressly or implied, warrants this information to be accurate and  
disclaims all liability for its use. Any person utili

zing this

document should seek competent professional advice to verify and  
assume responsibility for the suitability of this information to their  
particular situation.