

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

Product ID:BFC (HALON 1211)

MSDS Date:09/16/1988

FSC:4210

NIIN:01-100-9085

MSDS Number: BGLVD

=== 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 ==

=

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;INGESTION: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 ABOVE 900F, RELEASING BROMIDE IONS.HALOGEN
COMPOUNDS,SUCH AS
HALOGEN ACIDS AREA
ALSOFORMED.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.
Ventilation:VENTILATE LOW-LYING AREAS,SUCH AS,SUMPS OR PITS WHERE D

ENSE

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.

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 utilizing this document should seek competent professional advice to

verify and
assume responsibility for the suitability of this information to their
particular situation.