

# MATERIAL SAFETY DATA SHEET

For R&D use only. Not for drug, household or other uses.

Click <http://www.lookchem.com/cas-353/353-59-3.html> for suppliers of this product.

## Composition/Information on Ingredient

**Cas:**  
353-59-3  
**Code:**  
M

**RTECS:**  
PA5270000  
**Code:**  
M

**Name:**  
BROMOCHLORODIFLUROMETHANE

**Other REC Limits:**  
N/K

**OSHA PEL:**  
N/K  
**Code:**  
M

**OSHA STEL:**

**Code:**

**ACGIH TLV:**  
N/K  
**Code:**  
M

**ACGIHSTEL:**  
N/P  
**Code:**

## Control Measures

**Respiratory Protection:**  
NOT NORMALLY NEEDED.IF NEEDED,USE MSHA/NIOSH APPROVED RESPIRATOR FOR ORGANIC VAOPRS. FOR HIGH CONCENTRATIONS & OXYGEN-DEFICIENT ATMOSPHERES,USE POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR.

**Ventilation:**  
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:**  
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.

## Health Hazards Data

**LD50LC50Mixture:**  
N/K

**Route Of Entry Inds - Inhalation:**  
YES

**Skin:**  
NO

**Ingestion:**  
NO

**Carcinogenicity Inds - 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

**Signs And Symptoms Of Overexposure:**  
2 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:**  
EYES:IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES,SEE DOCTOR;INHALATION:REMOVE TO FRESH AIR,GIVE CPR/OXYGEN IF NEEDED,SEE DOCTOR;INGESTION:GIVE 1 OR 2 GLASSES OF WATER,DO NOT INDUCE VOMIT.LIE DOWN & KEEP WARM.SEEK MEDICAL ATTENTION.

**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.

**Neutralizing Agent:**  
N/R

**Waste Disposal Methods:**  
N/R

**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.

## Fire and Explosion Hazard Information

**Flash Point Method:**  
N/P

**Flash Point:**

**Flash Point Text:**  
NONE

**Autoignition Temp:**

**Autoignition Temp Text:**  
NONE

**Lower Limits:**  
N/R

**Upper Limits:**  
N/R

**Extinguishing Media:**  
3 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.VACATE AREA&VENTILATE

## Physical/Chemical Properties

**HCC:**  
G3

**NRC/State LIC No:**

**Net Prop WT For Ammo:**

**Boiling Point:**

**B.P. Text:**  
26F,-3C

**Melt/Freeze Pt:**

**M.P/F.P Text:**  
N/R

**Decomp Temp:**

**Decomp Text:**  
N/K

**Vapor Pres:**  
15 PSI

**Vapor Density:**  
5.7

**Volatile Org Content %:**

**Spec Gravity:**  
1.83

**VOC Pounds/Gallon:**

**PH:** N/R

**VOC Grams/Liter:**

**Viscosity:**  
N/R

**Evaporation Rate & Reference:**  
N/K

**Solubility in Water:**  
INSOLUBLE

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

**Percent Volatiles by Volume:**  
100

**Corrosion Rate:**  
N/K

## Reactivity Data

**Stability Indicator:**  
YES

**Stability Condition To Avoid:**  
DECOMPOSES UNDER FIRE CONDITIONS (ABOVE 900F,4820)

**Materials To Avoid:**  
ACTIVE METALS SUCH AS POWDERED ALUMINUM MAGNESIUM,AND FIRES OF METAL HYDRIDES.

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

**Hazardous Polymerization Indicator:**  
NO

**Conditions To Avoid Polymerization:**  
N/R

## Toxicological Information

**Information:**N/P

## MSDS Transport Information

**Information:**N/P

## Regulatory Information

**Sara Title III Information:** N/P

**Federal Regulatory Information:** N/P

**State Regulatory Information:** N/P

## Other Information

**Other Information:**N/P