

ANSUL FIRE PROTECTION, WORMALD U.S., INC. -- HALON 1211, BCF -- 4210-01-251-6274  
===== Product Identification =====

Product ID:HALON 1211, BCF

MSDS Date:06/01/1989

FSC:4210

NIIN:01-251-6274

MSDS Number: BHYDT

=== Responsible Party ===

Company Name:ANSUL FIRE PROTECTION, WORMALD U.S., INC.

Address:ONE STANTON STREET

City:MARINETTE

State:WI

ZIP:54143-2542

Country:US

Info Phone Num:715-735-7411

Emerg

ency Phone Num:715-735-7411

CAGE:03670

=== Contractor Identification ===

Company Name:4 INDUSTRIES INC

Address:2135 S JAMES RD

Box:City:COLUMBUS

State:OH

ZIP:43232

Country:US

Phone:614-876-4041

CAGE:4X153

Company Name:ALLSAFE FIRE EQUIPMENT INC

Address:2229 VIRGINIA AVE

Box:City:HAGERSTOWN

State:MD

ZIP:21740-7603

Country:US

Phone:301-582-1700

CAGE:9W536

Company Name:ANSUL INC

Address:ONE STANTON STREET

Box:City:MARINETTE

State:WI

ZIP:54143-2542

Country:US

Phone:715-735-7411

CAGE:03670

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==== Composition/Information on Ingredients =====

Ingred Name:CHLORODIFLUOROBROMOMETHANE  
CAS:353-59-3  
RTECS #:PA5270000  
Fraction by Wt: >99%  
Other REC Limits:NONE SPECIFIED

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===== 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:ACUTE: DIZZINESS, IMPAIRED  
COORDINATION, REDUCED MENTAL ACUITY, AND CARDIAC EFFECTS ABOVE 4%  
CON  
CENTRATION IN EXCESS OF ONE MINUTE. UNCONSCIOUSNESS OR EVEN  
DEATH IN HIGH CONCENTRATIONS WITH LONGER EXPOSURES. CHRONIC:  
UNKNOWN.  
Explanation of Carcinogenicity:NONE OF THE COMPOUNDS IN THIS PRODUCT IS  
LISTED BY IARC, NTP, OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:SEE HEALTH HAZARDS.  
Medical Cond Aggravated by Exposure:CARDIAC PROBLEMS MAY BE AGGRAVATED  
BY OVEREXPOSURE.

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

First Aid:REMOVE VICTIM TO FRESH  
AIR. GIVE SYMPTOMATIC AND SUPPORTIVE  
CARE. GET MEDICAL ATTENTION. NOTE: ADRENALIN IS CONTRAINDICATED IN  
THE TREATMENT OF OVEREXPOSURE TO HALON 1211. WASH EYES WITH PLENTY  
OF WATER FOR 15 MINUTES. SKIN: WASH WITH PLENTY OF WATER FOR 15  
MINUTES. INGEST: GIVE 1 TO 2 GLASSES OF WARM WATER AND DO NOT  
INDUCE VOMITING. GET MEDICAL ATTENTION IMMEDIATELY.

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

Flash Point:NONE TO BOILING  
Fire Fighting Procedures:THIS IS  
A FIRE EXTINGUISHING AGENT. USE WATER  
SPRAY TO COOL NEARBY CONTAINERS EXPOSED TO FIRE.  
Unusual Fire/Explosion Hazard:CONTAINERS ARE EQUIPPED WITH PRESSURE AND  
TEMPERATURE RELIEF DEVICES, BUT RUPTURE MAY OCCUR UNDER FIRE  
CONDITIONS IF USED IN TEMPERATURES OVER 900 F.

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

Spill Release Procedures:EVACUATE AREA; VENTILATE TO OUTSIDE  
ATMOSPHERE. COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF  
NON-EXTINGUISHED FLAME

MES.  
Neutralizing Agent:NOT APPLICABLE.

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Handling and Storage  
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Handling and Storage Precautions:STORE AS A LIQUEFIED COMPRESSED GAS IN DOT APPROVED PRESSURE VESSELS AWAY FROM HIGH TEMPERATURES, IF NOT CONNECTED TO A SYSTEM.

Other Precautions:NONE

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Exposure Controls/Personal Protection  
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Respiratory Protection:USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF EXPOSED TO CONCENTRATIONS GREATER THAN 4%. N

OT  
NORMALLY REQUIRED OTHERWISE.

Ventilation:MECHANICAL- ALL INDOOR AREAS AND LOW AREAS. LOCAL- RECOMMENDED TO CONTROL EXPOSURES.

Protective Gloves:PLASTIC IF WORKING WITH LIQUID.

Eye Protection:CHEMICAL GOGGLES RECOMMENDED.

Other Protective Equipment:EYE WASH AND SAFETY SHOWERS ARE GOOD SAFETY PRACTICE IN WORK AREAS SHEN WORKING WITH LIQUEFIED PRODUCT.

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health  
NONE

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Physical/Chemical Properties  
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HCC:G3

Boiling Pt:B.P. Text:26.0F,-3.3C

Vapor Pres:37.5

Vapor Density:5.7

Spec Gravity:1.83

Evaporation Rate & Reference:GAS AT ROOM TEMPERATURE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS GAS, SWEET ODOR.

Percent Volatiles by Volume:100

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Stability and Reactivity Data  
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Stability Indicator/Materials to Avoid:YES

ACTIVE METALS AND FIRES INVOLVING METAL HYDRIDES.

Stabilit

y Condition to Avoid:DECOMPOSES UNDER FIRE CONDITIONS ABOVE 900 F.

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

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF IN COMPLIANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.

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