

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

=====

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

Ingred Name:CHLORODIFLUOROBROMOMETHANE

CAS:353-59-3

RTECS #:PA5270000

Fraction by Wt: >99%

Other REC Limits:NONE SPECIFIED

===== 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.

===== 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.

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

Flash Point:NONE TO BOILING

Fire Fighting Procedures:THIS I

S 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.

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

Spill Release Procedures:EVACUATE AREA; VENTILATE TO OUTSIDE

ATMOSPHERE. COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF  
NON-EXTINGUISHED FLA

MES.  
Neutralizing Agent:NOT APPLICABLE.

===== Handling and Storage =====

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

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE NIOSH APPROVED SELF-CONTAINED BREATHING APPARATUS IF EXPOSED TO CONCENTRATIONS GREATER THAN 4%. NOT  
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

===== Physical/Chemical Properties =====

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

===== Stability and Reactivity Data =====

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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