

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 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.

=====
===== 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.

=====
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%. 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

=====
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.

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.