

ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- HALON 1301, FREON FE 1301 -- 6830-01-252-2428

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

Product ID:HALON 1301, FREON FE 1301

MSDS Date:01/15/1991

FSC:6830

NIIN:01-252-2428

MSDS Number: CHHSL

=== 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:71

5-735-7411

Emergency Phone Num:715-735-7411/800-424-9300(CHEMTREC)

CAGE:03670

=== Contractor Identification ===

Company Name:ANSUL INC

Address:ONE STANTON STREET

Box:City:MARINETTE

State:WI

ZIP:54143-2542

Country:US

Phone:715-735-7411

CAGE:03670

Company Name:DDRV STOCK MAINTENANCE DIV/DDRV-H

Address:8000 JEFFERSON-DAVIS HIGHWAY

Box:City:RICHMOND

State:VA

ZIP:23297

Country:US

Phone:804-279-3125

CAGE:02LX8

Company Name:FIRE-X CORP

Address:3305 CROFT ST

Box:City:NORFOLK

State:VA

ZIP:23513-4903

Coun

try:US
Phone:775-855-0196
CAGE:6K586
Company Name:FIRE-X OF VA (804-266-8844)
Address:6107 STAPLES MILL RD
Box:9757
City:RICHMOND
State:VA
ZIP:23225
Country:US
Phone:804-266-8844
CAGE:0FA36

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Composition/Information on Ingredients
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Ingred Name:TRIFLUOROBROMOMETHANE (HALON 1301) (SARA III)
CAS:75-63-8
RTECS #:PA5425000
Fraction by Wt: >99%
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9192
Ozone Depleting Chemical:1

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Hazards Identification
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LD50 LC50 Mixture:LC50=416 GM/CUM (RAT)
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EYES- THE LIQUID FORM OF THIS MATERIAL
CAN PRODUCE CHILLING SENSATIONS AND DISCOMFORT. SKIN- EVAPORATION
OF LIQUID FROM THE SKIN CAN PRODUCE CHILLING SENSATIONS. FROSTBITE
CAN OCCUR. INHALATION- VAPOR IS HEAVIER THAN AIR AND CAN CAUSE
SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING.
MAY LEAD TO
NARCOSIS, DEATH.
Effects of Overexposure:ACUTE: DIZZINESS, IMPAIRED COORDINATION,
REDUCED MENTAL ACUITY, AND CARDIAC EFFECTS CAN OCCUR.
UNCONSCIOUSNESS OR EVEN DEATH IN HIGH CONCENTRATIONS WITH LONGER
EXPOSURES. CHRONIC: NONE KNOWN WHEN OCCUPATIONAL EXPOSURE ARE
BELOW THE TLV.
Medical Cond Aggravated by Exposure:CARDIAC PROBLEMS. ALSO,PRODUCT IS
AN ASPHYXIANT & CAN INDUCE CARDIAC MUSCLE SENSITIZATION TO
CIRCULATING EPINEPHRINE-LIKE COMPOUNDS.

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First Aid Measures
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First Aid:EYE:FLUSH WITH PLENTY OF WATER FOR 15MIN WHILE HOLDING LIDS OPEN; SKIN:WASH WITH COPIOUS AMOUNTS OF SOAP & WATER FOR AT LEAST 15MIN,IF REDNESS,ITCHING OCCURS,GET MEDICAL ATTN,TREAT FROSTBITE IF NECESSARY; INH:REMOVE TO FRESH AIR,IF COUGH OR OTHER RESPIRATORY SYMPTOMS OCCUR,CONSULT MEDICAL PERSONNEL; ING:NOT LIKELY TO OCCUR.

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Fire Fighting Measures
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Flash Point:NONFLAMMABLE

Extinguishing Media:THIS IS A FIRE EXTINGUISHING AGENT.

Fire Fighting Procedures:USE WATER TO COOL FIRE-EXPOSED CYLINDERS OR OTHER CONTAINERS. SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:CONTAINERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES, BUT RUPTURE MAY OCCUR UNDER FIRE CONDITIONS AND TOXIC DECOMPOSITION BY-PRODUCTS CAN FORM.

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

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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 TEMPERATURE.

Other Precautions:IF CYLINDER IS NOT CONNECTED TO A SYSTEM,IT MUST BE SAFETY CAPPED TO PROTECT AGAINST ACTUATION OF VALVE & RELEASE OF AGENT.

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Exposure Controls/Personal Protection
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Respiratory Protection:NOT NORMALLY NECESSARY IF CONTROLS ARE ADEQUATE. FOR HIGH CONCENTRATIONS EXCEEDING 10%,OR IF EXPOSURE IS PROLONGED,USE POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR.

Ventilation:MECHANICAL & LOCAL EXHAUST.

Protective Gloves:PLASTIC

Eye Protection:GOGGLES/FACE SHIELD

Other Protective Equipment:SAFETY SHOWER & EYE BATH

Supplemental Safety and Health

NONE

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Physical/Chemical
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al Properties =====

HCC:G3

Boiling Pt:B.P. Text:-72F,-58C

Melt/Freeze Pt:M.P/F.P Text:-270F,-168C

Vapor Pres:199 PSI

Vapor Density:5.2

Spec Gravity:1.57

Solubility in Water:NEGLIGIBLE

Appearance and Odor:SWEET ODOR, COLORLESS GAS.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS, FIRES OF METAL HYDRIDES, STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:EXTREMELY HIGH

TEMPERATURES

Hazardous Decomposition Products:CO, CO2,OXIDES OF BROMIDE & FLORIDE,
HYDROGEN BROMIDE.

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

Waste Disposal Methods:KEEP IN COVERED DRUMS,PENDING DISPOSAL. HANDLE &
DISPOSE IN FULL COMPLIANCE WITH ALL APPLICABLE
INTERNATIONAL,FEDERAL,STATE, & LOCAL REGULATIONS.

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