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

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

:715-735-7411

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

С

ountry: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

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

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

====== 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 BREATHI

NG. 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 OCCU PATIONAL 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: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 NECESS ARY; INH:REMOVE TO FRESH AIR,IF COUGH OROTHER RESPIRATORY SYMPTOMS OCCUR,CONSULT MEDICAL PERSONNEL; ING:NOT LIKELY TO OCCUR.
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Flash Point:NO NFLAMMABLE 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.
======== Accidental Release Measures ====================================
Spill Release Procedures:EVACUATE AREA, VENTILATE TO OUTSIDE ATMOSPHERE.COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF NON-EXTINGUISHED FLAMES.
=========== Handling and Storage =============
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.
====== Exposure Controls/Personal Protection ========
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
Physical/Che

mical 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 HI GH 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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