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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:7 15-735-7411 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 Cou

ntry: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

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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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 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.

Flash Point:NONF LAMMABLE 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. ===== Spill Release Procedures: EVACUATE AREA, VENTILATE TO OUTSIDE ATMOSPHERE.COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF NON-EXTINGUISHED FLAMES. 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 O F

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/Chemi

cal 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 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.

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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