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Product ID:HALON 1301, FREON FE 1301 MSDS Date:05/07/1993 FSC:6830 NIIN:01-275-1637 **MSDS Number: CHHSW** === 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: 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:TRIFLUOROBROMOMETHAN

E (HALON 1301) (SARA III) CAS:75-63-8 RTECS #:PA5425000 Fraction by Wt: >99% Other REC Limits:NONE RECOMMENDED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9293 Ozone Depleting Chemical:1

LD50 LC50 Mixture:(RAT) 2112 MG/L 4 HRS. Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:ACUTE-EYES/SKIN:LIQUID CAN CAUSE FROSTBITE. INHALATION:VAPOR

IS HEAVIER THAN AIR & CAN CAUSE SUFFOCATION. VERY HIGH CONCENTRATIONS CAN CAUSE GIDDINESS, SHORTNESS OF BREATH, NARCOSIS, CARDIAC IRREGULAR ITIES, UNCONSCIOUSNESS OR EVEN DEATH. ORAL:NOT LIKELY. CHRONIC- NONE KNOWN.

Explanation of Carcinogenicity:THERE ARE NO INGREDIENTS ABOVE 0.1% WHICH ARE IDENTIFIED AS CARCINOGENS BY NTP,IARC OR OSHA.

Effects of Overexposure:DIZZINESS, IMPAIRED COORDINATION, REDUCED MENTAL ACUITY AND CARDIAC EFFECTS CAN OCCUR. UNCONSCIOUSNESS OR EV

EN DEATH IN HIGH CONCENTRATIONS WITH LONGER EXPOSURES. Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING CARDIAC DISEASES MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THE SUBSTANCE.

First Aid:OBTAIN MEDICAL HELP IF SYMPTOMS PERSIST. INHALATION:REMOVE TO FRESH AIR. EYES/SKIN:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. TREAT FOR FROSTBITE IF NECESSARY. INGESTION: NOT LIKE LY. NOTE TO

PHYSICIAN:DO NOT GIVE ADRENALINE OR SIMILAR SYMPTOMATIC DRUGS. DO NOT ALLOW VICTIM TO EXERCISE UNTIL 24 HOURS FOLLOWING SPECIFIC EXPOSURES. FREEZE BURNS OF MUCOSAL TISSUE CAN DEVELOP.

Extinguishing Media:THIS IS A FIRE EXTINGUISHING AGENT. USE WATER TO COOL FIRE-EXPOSED CYLINDERS OR OTHER CONTAINERS. Fire Fighting Procedures:WEAR FULL PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARA

TUS WHEN ENTERING UNVENTILATED FIRE AREAS WHERE PRODUCT HAS BEEN USED. Unusual Fire/Explosion Hazard:CONTAINERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES, BUT RUPTURE MAY OCCUR UNDER FIRE CONDITIONS & MAY PRODUCE TOXIC FUMES IN FIRES OVER 900F.

Spill Release Procedures: EVACUATE AREA. VENTILATE HTE AREA. COOL OR REMOVE HOT METAL SURFACES AND OPEN FLAMES. Neutralizing Agent: NOT APPLICABLE.

Handling and Storage Precautions:STORAGE-STORE AS A LIQUIFIED
COMPRESSED GAS IN DOT APPROVED PRESSURE VESSELS AWAY FROM HIGH
TEMPERATURES. KEEP AWAY FROM INCOMPATIBLE MATERIALS.
Other Precautions:AVOID BREATHING VAPORS OR MISTS. DO NOT GET IN EYES,
ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE
EATING OR DRINKING. REMOVE CONTAMINATED CLOTHING PROMPTLY. KEEP OUT
OF REACH OF C HILDREN.

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

Respiratory Protection:NON REQUIRED UNDER NORMAL CONDITIONS. IF HIGH VAPOR OR MIST CONCENTRATIONS EXPECTED, USE NIOSH-APPROVED RESPIRATOR FOR ORGANIC VAPORS AND MISTS. WEAR SUPPLIED-AIR RESPIRATOR PROTECTION IN CONFINED OR ENCLOSED SPACES, IF NEEDED. Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S). Protective Gloves:PLASTIC GLOVE RECOMMENDED Eye Prote ction:SAFETY GLASSES Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER, NORMAL WORK CLOTHING COVERING ARMS AND LEGS Work Hygienic Practices:WASH THOROUGHLY BEFORE EATING OR DRINKING. DO NOT BREATHE DUSTS. AVOID CONTACT WITH EYES AND SKIN. Supplemental Safety and Health USE IN A WELL VENTILATED AREA ONLY. DO NOT RELEASE TO ENVIRONMENT.

HCC:G3 Boiling Pt:B.P. Text:-72F,-58C Decomp Temp:Decomp Text:>900F,>482 C Vapor Pres:10292 @70F Vapor Density:5.2 Spec Gravity:1.57 Evaporation Rate & amp; Reference:GAS AT ROOM TEMPERATURE Solubility in Water:NEGLIGIBLE Appearance and Odor:COLORLESS GAS - SWEET ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES ACTIVE METALS AND FIRES INVOLVING METAL HAYDRIDES. Stability Condition to Avoid:EXCESSIVE HEAT (ABOVE 900F) Hazardous Decomposition Products:HYDROGEN FLUORIDE & HYDROGEN BROMIDE.THEY HAVE A SHARP IRRITATING ODOR & IN EVEN LOW CONCENTRATIONS CAUSE INJURY/ DEATH.

Waste Disposal Methods:RETURN TO DRMO OR MANUFACTURER FOR RECYCLING OR REUSE.

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