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Product ID: HALON 1301, FREON FE 1301, 77803 MSDS Date:01/12/1996 FSC:4210 NIIN:01-328-0239 MSDS Number: CDYJD === 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 Ph one Num:715-735-7411...FAX 715-732-3477 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 Ingred Name:TRIFLUOROBROMOMETHANE (HALON 1301) (SARA 313) (CERCLA) CAS:75-63-8 RTECS #:PA5425000 Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

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SHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9596 Ozone Depleting Chemical:1

LD50 LC50 Mixture:TLV IS 1000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:LUNGS, CNS, EYES, SKIN. ACUTE- CONTACT WITH LIQUID CAN CAUSE SKIN FROSTBITE. GAS MAY CAUSE EYE IRRITATION. ASPHYXIANT. INHALATION MAY CAUSE CNS EFFECTS. HIGH

CONCENTRATIONS MAY CAUSE NAR COSIS, CARDIAC IRREGULARIRIES, UNCONSCIOUSNESS OR EVEN DEATH. INGESTION IS NOT LIKLEY (GAS). CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYE OR SKIN FROSTBITE AND FREEZE BURNS, HEADACHE, DROWSINESS, DIZZINESS, RAPID BREATHING, IRREGULAR HEART RATE, SHORTNESS OF BREATH, MUSCULAR WEAKNESS, RINGING IN THE EAR, UNCONSCIOUSNESS, COMA, DEATH

Medical Cond Aggravated by Exposure:PERSONNEL WITH PRE-EXISTING CHRONIC RES

PIRATORY DISEASES OR HEART DISORDERS SHOULD REFRAIN FROM BREATHING EXCESSIVE GAS.

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL: NOT LIKELY SINCE THIS MATERIAL IS GAS AT ROOM TEMPERATURE.

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Flash Point:NONE
Lower Limits:NOT RELEVANT
Upper Limits:NOT RELEVANT
Extinguishing Media:THIS IS A FIRE EXTINGUISHING AGENT. USE WATER FOG, CARBON DIOXIDE, FOAM, OR DRY CHEMICAL FOR SURROUNDING FIRE.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER SPRAY. EVACUATE AREA.
Unusual Fire/Explosion Hazard:THOUGH GAS CYLINDERS ARE EQUIPPED WITH PRESSURE RELIEF D

EVICES, THEY SHOULD BE REMOVED FROM FIRE TO AVOID RISK OF RUPTURE. MAY FORM TOXIC/CORROSIVE GASES.

Spill Release Procedures: EVACUATE AREA. WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. REMOVE OPEN FLAMES. VENTILATE TO OUTSIDE ATMOSPHERE. STOP LEAK IF POSSIBLE. UNCONTROLLED RELEASES SHOULD BE RESPONDED TO BY TRAIN ED PERSONNEL USING PRE-PLANNED PROCEDURES.

Neutralizing Agent:NOT RELEVANT

Handling and Storage Precautions:STORE IN A COOL, WELL-VENTILATED PLACE AWAY FROM OPEN FLAMES AND INCOMPATIBLES. KEEP CYLINDERS SECURED AND UPRIGHT. KEEP OUT OF REACH OF CHILDREN.

Other Precautions: KEEP AWAY FROM SOURCES OF HEAT. USE WITH ADEQUATE VENTILATION. THIS GAS IS HEAVIER THAN AIR AND TENDS TO ACCUMULATE NEAR THE FLOOR IN CLOSED SPACES. READ ALL LABEL INSTRUCTIONS.

====== Exposure Controls/Personal Prote

ction ==========

Respiratory Protection:NONE REQUIRED UNDER NORMAL USE. HOWEVER, AIR-SUPPLIED RESPIRATORS ARE REQUIRED WHILE WORKING IN CONFINED SPACES WITH THIS PRODUCT. THE RESPIRATORY PROTECTION USE MUST CONFORM WITH OSHA RULES AS SPECIF IED IN 29 CFR 1910.134.

Ventilation:SUFFICIENT TO PREVENT ACCUMULATION ABOVE TLV. LOCAL EXHAUST LOCATED NEAR THE FLOOR.

Protective Gloves: INSULATED NEOPRENE IF HANDLING LIQUID

Eye Protection: SAFETY GOGGLES RECOMMENDED

Other Protective Equ

ipment:EYE WASH STATION, SAFETY SHOWER,

INDUSTRIAL-TYPE WORK CLOTHING, SAFETY SHOES AND APRON AS REQUIRED. Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

NOTE TO PHYSICIAN: INCREASED CARDIAC SENSITIVITY AND POSSIBLE ARRHYTHMIA MAY RESULT FROM OVEREXPOSURE. DO NOT ADMINISTER EPINEPHRINE OR OTHER STIMULATING DRUGS FOLLOWING OVEREXPOSURE UNLESS ABSOLUTELY NECESSARY. DO NOT ALLOW VICTIM TO EXERCISE UNTIL

24 HOURS AFTER EXPOSURE. FREEZE BURNS CAN DEVELOP FOLLOWING EXPOSURE.

HCC:G3 NRC/State Lic Num:NOT RELEVANT Boiling Pt:B.P. Text:-72F,-58C Decomp Temp:Decomp Text:>900F,>482C Vapor Pres:11048 @70F Vapor Density:5.2 Spec Gravity:1.57 (LIQUID) Viscosity:NOT RELEVANT Evaporation Rate & amp; Reference:NOT RELEVANT (GAS) Solubility in Water:NEGLIGIBLE Appearance and Odor:COLORLESS GAS - SWEET ODOR Percent Volatiles by Volu me:100

Stability Indicator/Materials to Avoid:YES ACTIVE METALS AND FIRES INVOLVING METAL HYDRIDES Stability Condition to Avoid:OVERHEATING CYLINDERS, TEMPERATURES ABOVE 900F Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE,

HYDROGEN FLUORIDE AND HYDROGEN BROMIDE

Waste Disposal Methods:WASTE DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. RECYCLE OR REUSE IF POSSIBLE.

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