View NSN Online: https://aerobasegroup.kr/nsn/8120-01-257-4591

ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- HALON 1301, FREON FE 1301 -- 8120-01-257-4591

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

Product ID:HALON 1301, FREON FE 1301

MSDS Date:01/15/1991

FSC:8120

NIIN:01-257-4591

MSDS Number: BPCDY === 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 CHEMTRA

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

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

Ingred Name:TRIFLUOROBROMOMETHANE (HALON 1301) (SARA III)

CAS:75-63-8

RTECS #:PA5425000 Fraction by Wt: 99.0%

Other REC Limits: NONE RECOMMENDED

OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9 Ozone Depleting Chemical:1

Ingred Name:OTHER INGREDIENTS
Other REC Limits:NONE RECOMMENDED

========== Hazards Identification ===========================

LD50 LC50 Mixture:LC50 INH RAT >800,000 PPM

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

Health Hazards Acute and Chronic:INHALATION: VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. BREATHING HIGH CONCENTRATIONS

OF VAPOR MAY CAUSE

LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF B REATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OF DEATH. SKIN/EYE: LIQUID CAN DEFAT TISSUE.

Explanation of Carcinogenicity:THIS COMPOUND IS NOT LISTED AS A CARCINOGEN BY IARC, NTP OR OSHA.

Effects of Overexposure:BREATHING HIGH CONCENTRATIONS OF VAPOR MAY CAUSE LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH, AND MAY LEAD TO NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH.

Medical Cond Aggravated by Exposure:IN SUSCEPTIBLE INDIVIDUALS, CARDIAC SENSITIZATION TO CIRCULATING EPINEPHRINE COMPOUNDS CAN RESULT IN POTENTIALLY FATAL HEART ARRHYTHMIAS.

First Aid:INHALATION: REMOVE TO FRESH AIR, CALL A PHYSICIAN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION.IF BREATHING IS DIFFICULT, GIVE OXYGEN. DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. EYE: FLUSH WITH WATER. SKIN: FLUSH WITH WATE

R. IF IRRITATIONPERSISTS, GET

MEDICAL ATTENTION. ORAL: GET MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING AS THE HAZARD OF ASPIRATING INTO THE LUNGS IS TOO GREAT.

============= Fire Fighting Measures ========================

Flash Point:NONE

Extinguishing Media:USE WATER TO COOL FIRE EXPOSED CYLINDERS.
Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
FULL FACED SELF CONTAINED BREATHING APPARATUS. COOL FIRE EXPOSED
CONTAINERS WITH WATER SP

RAY. Unusual Fire/Explosion Hazard:COMBUSTION OR HEAT OF FIRE MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS AND VAPORS.
========= Accidental Release Measures ==========
Spill Release Procedures:VENTILATE ENCLOSED AREAS IN CASE OF INADVERTENT OR DELIBERATE DISCHARGE OF HALON Neutralizing Agent:NONE
============= Handling and Storage ==============
Handling and Storage Precautions:STORE IN A CLEAN, COOL, DRY AND WELL-VENTILATED AREA OF LOW FIRE R ISK. PROTECT CONTAINERS FROM PHYSICAL DAMAGE AND KEEP CLOSED. Other Precautions:AVOID BREATHING VAPOR, LIQUID CONTACT WITH EYES, SKIN OR CLOTHING. TANK-CLEANING PERSONNEL SHOULD USE ONLY FORMAL TANK ENTRY PROCEDURE BASED ON RECOGNIZED SAFETY PRINCIPLES. EMPTY CONTAINERS MAY CONTA IN PRODUCT RESIDUES/VAPORS.
====== Exposure Controls/Personal Protection ========
Respiratory Protection:NONE REQUIRED FOR ADEQUATELY VENTED WORK SITUATIONS. FOR ACCIDENTAL OR NON-VEN TILATED SITUATIONS, USE A SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR, APPROVED BY NIOSH. Ventilation:PROVIDE LOCAL EXHAUST AT FILLING ZONES AND OTHER OPERATING SPACES WHERE LEAKAGE IS PROBABLE. MECHANICAL FOR OTHER. Protective Gloves:PLASTIC Eye Protection:CHEMICAL GOGGLES; EYE WASH AND SHOWER Other Protective Equipment:USE IMPERVIOUS CLOTHING IF THERE IS REPEATED OR PROLONGED CONTACT WITH LIQUID. Work Hygienic Practices:REMOVE AND WASH CLOTHING PROMPTLY UPON  CONTAMINATION. USE ORDINARY GOOD HYGIENE AND GOOD HOUSEKEEPING. Supplemental Safety and Health AVOID DIRECT CONTACT.
============ Physical/Chemical Properties ===========
HCC:G3 Boiling Pt:B.P. Text:-72F,-58C Vapor Pres:199.0 PSI Vapor Density:5.2 Spec Gravity:1.57 Solubility in Water:NEGLIGIBLE Appearance and Odor:COLOR GAS, SWEET ODOR Percent Volatiles by Volume:100
========= Stability and Reactivity Data =========
Stability Indicator/Materials to Avoid:

YES ACTIVE METALS AND FIRES INVOLVING METAL HYDRIDES Stability Condition to Avoid:HIGH HEAT, DO NOT HEAT AVOVE 900 F Hazardous Decomposition Products: DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METAL SURFACES, ETC.) FORMING HYDROBROMIC AND HYDROFLUORIC ACIDS

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

Waste Disposal Methods: COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS. REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. MATERIAL USUALLY DISPERSE S IN THE ATMOSPHERE.

Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to the

particular situation.