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

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.

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