

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;

9293

Ozone Depleting Chemical:1

Ingred Name:OTHER INGREDIENTS

Other REC Limits:NONE RECOMMENDED

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===== 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 BREATH, AND MAY LEAD TO
NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR 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.

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===== First Aid Measures =====

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 WATER

IF IRRITATION PERSISTS, GET

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

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===== 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

PRAY.

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 RISK. 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 CONTAIN PRODUCT RESIDUES/VAPORS.

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

Respiratory Protection:NONE REQUIRED FOR ADEQUATELY VENTED WORK SITUATIONS. FOR ACCIDENTAL OR NON-VENTILATED 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 ABOVE 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 DISPERSES IN THE ATMOSPHERE.

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