

ANSUL FIRE PROTECTION, WORMALD U.S.INC. -- HALON 1302, FREON FE 1301 -- 6830-00-543-6623

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Product Identification
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Product ID:HALON 1302, FREON FE 1301

MSDS Date:01/12/1996

FSC:6830

NIIN:00-543-6623

Status Code:A

MSDS Number: CHVVC

=== Responsible Party ===

Company Name:ANSUL FIRE PROTECTION, WORMALD U.S.INC.

Address:ONE STANTON STREET

City:MARINETTE

State:WI

ZIP:54143-2542

Country:US

In

fo 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

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Composition/Information on Ingredients
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Ingred Name:TRIFLUOROBROMOMETHANE (HALON 1301) (SARA 313) (CERCLA)

CAS:75-63-8

RTECS #:PA5425000

Fraction by Wt: >99%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 P

PM
ACGIH TLV:1000 PPM; 9596
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:LC50=416 GM/CUM (RAT)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:EYES- THE LIQUID FORM OF THIS MATERIAL CAN PRODUCE CHILLING SENSATIONS AND DISCOMFORT. SKIN- EVAPORATION OF LIQUID FROM THE SKIN CAN PRODUCE CHILLING SENSATIONS. FROSTBITE CAN OCCU

R. INHALATION- VAPOR IS HEAVIER THAN AIR AND CAN CAUSE SUFFOCATION BY REDUCING OXYGEN AVAILABLE FOR BREATHING. MAY LEAD TO NARCOSIS, DEATH.

Effects of Overexposure:ACUTE: DIZZINESS, IMPAIRED COORDINATION, REDUCED MENTAL ACUITY, AND CARDIAC EFFECTS CAN OCCUR. UNCONSCIOUSNESS OR EVEN DEATH IN HIGH CONCENTRATIONS WITH LONGER EXPOSURES. CHRONIC: NONE KNOWN WHEN OCCU PATIONAL EXPOSURE ARE BELOW THE TLV.

Medical Cond Aggravated by Exposure:CARDIAC PROBLEMS. ALSO, PRODUCT IS

AN ASPHYXIANT & CAN INDUCE CARDIAC MUSCLE SENSITIZATION TO CIRCULATING EPINEPHRINE-LIKE COMPOUNDS.

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

First Aid:EYE: FLUSH WITH PLENTY OF WATER FOR 15MIN WHILE HOLDING LIDS OPEN. SKIN: WASH WITH COPIOUS AMOUNTS OF SOAP & WATER FOR AT LEAST 15MIN, IF REDNESS, ITCHING OCCURS, GET MEDICAL ATTN, TREAT FROSTBITE IF NECESSARY. INHALATION: REMOVE TO FRESH AIR, IF COUGH OR OTHER RESPIRATORY SYMPTOMS OCCUR, CONSULT MEDICAL PERSONNEL.
INGESTION: NOT LIKELY TO OCCUR.

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

Flash Point:NONFLAMMABLE

Extinguishing Media:THIS IS A FIRE EXTINGUISHING AGENT.

Fire Fighting Procedures:USE WATER TO COOL FIRE-EXPOSED CYLINDERS OR OTHER CONTAINERS. SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE AND PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:CONTAINERS ARE EQUIPPED WITH PRESSURE AND TEMPERATURE RELIEF DEVICES, BUT RUPTURE M

AY OCCUR UNDER FIRE
CONDITIONS AND TOXIC DECOMPOSITION BY-PRODUCTS CAN FORM.

===== Accidental Release Measures =====

Spill Release Procedures:EVACUATE AREA, VENTILATE TO OUTSIDE
ATMOSPHERE. COOL OR REMOVE HOT, METAL SURFACES OR SOURCE OF
NON-EXTINGUISHED FLAMES.

===== Handling and Storage =====

Handling and Storage Precautions:STORE AS A LIQUEFIED COMPRESSED GAS IN
DOT APPROVED PRESSURE VESSELS AWAY FROM HIGH TEMP
ERATURE.

Other Precautions:IF CYLINDER IS NOT CONNECTED TO A SYSTEM,IT MUST BE
SAFETY CAPPED TO PROTECT AGAINST ACTUATION OF VALVE & RELEASE OF
AGENT.

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

Respiratory Protection:NOT NORMALLY NECESSARY IF CONTROLS ARE ADEQUATE.
FOR HIGH CONCENTRATIONS EXCEEDING 10%,OR IF EXPOSURE IS
PROLONGED,USE POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR.

Ventilation:MECHANICAL & LOCAL EXHAUST.

Protective Gloves:PLASTIC

Eye Protecti

on:CHEMICAL GOGGLES/FACE SHIELD

Other Protective Equipment:SAFETY SHOWER & EYE WASH ARE GOOD SAFETY
PRACTICE IN WORK AREAS WHEN WORKING WITH LIQUEFIED PRODUCT.

Work Hygienic Practices:NONE SPECIFIED BY MANUFACTURER.

Supplemental Safety and Health

NONE

===== Physical/Chemical Properties =====

HCC:G3

Boiling Pt:B.P. Text:-72F,-58C

Melt/Freeze Pt:M.P/F.P Text:-270F,-168C

Vapor Pres:199 PSI

Vapor Density:5.2

Spec Gravity:1.57

Solubility in Water:NEGLIGIBLE

Appearanc

e and Odor:SWEET ODOR, COLORLESS GAS.

Percent Volatiles by Volume:100

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

ACTIVE METALS, FIRES OF METAL HYDRIDES, STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:EXTREMELY HIGH TEMPERATURES

Hazardous Decomposition Products:CO, CO2,OXIDES OF BROMIDE & FLORIDE,
HYDROGEN BROMIDE.

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

Waste Disposal Methods:DISPOSE OF
IN COMPLIANCE WITL LOCAL, STATE AND
FEDERAL REGULATIONS.

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