

VAN WATERS AND ROGERS INC -- FREON(R) T-WD 602 -- 6850-00-181-7115

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Product Identification
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Product ID:FREON(R) T-WD 602

MSDS Date:07/21/1987

FSC:6850

NIIN:00-181-7115

MSDS Number: BPYDJ

=== Responsible Party ===

Company Name:VAN WATERS AND ROGERS INC

Address:1600 NORTON BLVD

City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Info Phone Num:CONTACT YOUR LOCAL BRANCH OFFICE

Emergency Phone Nu

m:800-424-9300

CAGE:0STM5

=== Contractor Identification ===

Company Name:VOPAK USA INC

Address:6100 CARILLON POINT

Box:City:KIRKLAND

State:WA

ZIP:98033-7357

Country:US

Phone:425-889-3400/425-889-3617

CAGE:0STM5

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Composition/Information on Ingredients
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Ingred Name:1,1,2-TRICHLORO-1,2,2-TRIFLUOROETHANE

CAS:76-13-1

RTECS #:KJ4000000

Fraction by Wt: 91.5%

OSHA PEL:1000PPM/1250STEL

ACGIH TLV:1000PPM/1250STEL8990

Ozone Depleting Chemical:1

Ingred Name:SURFACTANT

Fraction

by Wt: 2.5%

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 6%

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

LD50 LC50 Mixture:LD50 (ORAL RAT) IS 43,000 MG/KG
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE-INHALATION: SUFFOCATION,
NARCOSIS, CARDIAC IRREGULARITIES, UNCONSCIOUSNESS OR DEATH. THE
SURFACTANT IN THE PRODUCT IS AN EYE IRRITANT. EYE:IR
RITATION.
SKIN:MAY CAUSE IRRITATION AFTER PROLONGED C ONTACT. INGESTION:LARGE
QUANTITIES MAY CAUSE BLINDNESS, UNCONSCIOUSNESS OR DEATH.
Explanation of Carcinogenicity:NONE OF THE CHEMICALS IN THIS PRODUCT IS
LISTED BY IARC, NTP OR OSHA AS A CARCINOGEN.
Effects of Overexposure:BREATHING HIGH CONCENTRATIONS CAN CAUSE
LIGHT-HEADEDNESS, GIDDINESS, SHORTNESS OF BREATH. IRRITATION OF THE
SKIN AND EYES.
Medical Cond Aggravated by Exposure:PERSONS WITH A HISTORY OF
RESPIRATORY DI
SORDERS MAY BE AT INCREASED RISK FROM EXPOSURE.

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

First Aid:INHALATION: REMOVE SUBJECT TO FRESH AIR. MAINTAIN BREATHING
AND DO NOT GIVE EPINEPHRINE OR SIMILAR DRUGS. EYE: FLUSH WITH
PLENTY OF WATER FOR 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION.
SKIN: WASH WI TH SOAP AND WATER. INGESTION: DO NOT INDUCE VOMITING.
GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:NONE
Extinguishing Media:EXTINGUISH WITH AGENT SUITABLE FOR SURROUNDING FIRE
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND
FULL PROTECTIVE GEAR.
Unusual Fire/Explosion Hazard:NONE NOTED BY MANUFACTURER.

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

Spill Release Procedures:ISOLATE AREA. ELIMINATE IGNITION SOURCES.
VENTILATE THE AREA. USE SELF-CONTONTAINED BREATHING APPARATUS,
RUBBER GLOVES AND BOOTS. STOP LEAK. ABSORB WIT

H INERT ABSORBENT AND

PLACE IN CONTAINERS FOR DISPOSAL. KEEP OUT OF SEWERS AND STORM DRAINS.

Neutralizing Agent: NONE APPLICABLE FOR THIS MATERIAL

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

Handling and Storage Precautions: STORE IN COOL, DRY, WELL VENTILATED, LOW FIRE RISK AREA. PROTECT CONTAINERS FROM PHYSICAL DAMAGE. STORE CONTAINERS IN A CLEAN AREA. DO NOT HEAT ABOVE 125F.

Other Precautions: EMPTY CONTAINERS RETAIN RESIDUE. DO NOT PRESSURIZE, CUT, WELD OR EXPOSE TO HEAT, FLAME, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY. EMPTIES ARE SUBJECT TO PROPER WASTE DISPOSAL REGULATIONS.

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

Respiratory Protection: IF VENTILATION DOES NOT MAINTAIN INHALATION EXPOSURES BELOW PEL (TLV), USE NIOSH/MSHA APPROVED RESPIRATOR AS PER CURRENT 29 CFR 1910.134, INSTRUCTIONS/WARNINGS AND NIOSH-RESPIRATOR SELECTION.

Ventilation: MECHANICAL (GENERAL) VENTILATION IS REQUIRED. LOCAL EXHAUST MAY BE REQUIRED IF WORK AREA IS NOT VENTED.

Protective Gloves: RUBBER

Eye Protection: SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment: SAFETY SHOWER AND EYE BATH. OTHER EQUIPMENT AS REQUIRED TO MINIMIZE EXPOSURE FROM PROLONGED OR REPEATED CONTACT.

Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health
NONE

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

HCC: N1

Boiling Pt: B.P. Text: 112F, 44C

Vapor Pres: 362 MMHG

Vapor Density: 2.9

Spec Gravity: 1.49

Evaporation Rate & Reference: