

DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- R-11 -- 6830-01-367-7731

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

Product ID:R-11

MSDS Date:10/02/1995

FSC:6830

NIIN:01-367-7731

MSDS Number: BXWPV

=== Responsible Party ===

Company Name:DDRV STOCK MAINTENANCE DIV/DDRV-M/

Address:8000 JEFFERSON-DAVIS HIGHWAY

City:RICHMOND

State:VA

ZIP:23297

Country:US

Info Phone Num:804-279-3125

Emergency Phone Num:800-851-8061

Pre

parer's Name:DGSC-VBA/HMIS

CAGE:02LX8

=== Contractor Identification ===

Company Name:DDRV STOCK MAINTENANCE DIV/DDRV-H

Address:8000 JEFFERSON-DAVIS HIGHWAY

Box:City:RICHMOND

State:VA

ZIP:23297

Country:US

Phone:804-279-3125

CAGE:02LX8

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

Ingred Name:TRICHLOROFLUOROMETHANE (CFC-11) (SARA 313) (CERCLA)

CAS:75-69-4

RTECS #:PB6125000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:C, 1000 PPM; 9495

EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:TLV 1000 PPM
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYES, SKIN, CNS, LUNGS.
ACUTE- MAY CAUSE EYE IRRITATION & BLURRING VISION. REPEATED SKIN
CONTACT CAN DRY SKIN CASING RASH. OVEREXPOSURE BY INHALATION MAY
CAUSE C
NS DEPRESSION WITH ANESTH ETIC EFFECTS & IRREGULAR PULSE.
INGESTION MAY CAUSE HEADACHE, NAUSEA, WEAKNESS. CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, DISCOMFORT, RASH, COLDNESS, DRYING,
TEARING, BLURRING OF VISION, COUGHING, IRREGULAR PULSE, DROWSINESS,
CONFUSION, HEADACHE, INCOORDINATION, LOSS OF CONSCIOUSNESS,
PALPITATION, INADEQUATE CIRCULATION, NAUSEA
Medical Cond Aggravated by Exposure:PRE-EXISTING DISEASES OF THE
CENTRAL NE
RVOUS SYSTEM OR CARDIOVASCULAR SYSTEM

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

First Aid:GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYE/SKIN:FLUSH
WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. INHALED:REMOVE TO
FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:NO SPECIFIC
INTERVENTION IS IND ICATED AS THE COMPOUND IS NOT LIKELY TOBE
HAZARDOUS BY INGESTION. HOWEVER, CONSULT A PHYSICIAN.

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

Flash Point:NONE
Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL
FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED
CONTAINERS.
Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE
MODE. TOXIC GASES MAY BE PRESENT.
Unusual Fire/Explosion Hazard:CONTAINERS MAY RUPTURE. DECOMPOSITION MAY
OCCUR.

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

Sp

ill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. PROVIDE VENTILATION. STOP LEAK IF POSSIBLE. DIKE SPILL. COLLECT ON ABSORBENT MATERIAL AND TRANSFER TO STEEL DRUMS FOR RECOVERY OR DISPOSAL. KEEP OUT OF SEWER.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN VENTILATED AREA AWAY FROM EXCESSIVE HEAT, OPEN FLAMES & INCOMPATIBLES. THIS MATERIAL BOILS AT 75F. STORE IN CYLINER OR BELOW 5

OF.

Other Precautions:USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHIG VAPORS.

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

Respiratory Protection:NONE REQUIRED FOR NORMALLY-VENTED WORK SITUATIONS. FOR ACCIDENTAL OR NON-VENTILATED SITUATIONS, WHERE CONCENTRATION OF VAPORS MAY BE HIGH, USE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPP LIED-AIR RESPIRATOR.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NEOPRENE OR PVA

Eye Protection:SPLASH-PROOF SAFETY GOGGLES OR GLASSES

Other Protective Equipment:EYE WASH STATION, QUICK DRENCH SHOWER AND IMPERVIOUS CLOTHING

Work Hygienic Practices:GOOD PERSONAL HYGIENE PRACTICES REQUIRE THAT GROSS AMOUNT OF ANY CHEMICAL BE REMOVED FROM THE SKIN AS SOON AS PRACTICAL.

Supplemental Safety and Health

THI

S MSDS WAS PREPARED BY THE PROFESSIONALS OF DGSC-VBA/HMIS WITHOUT ANY WARRANTY. IT IS THE USER'S RESPONSIBILITY TO GATHER INFORMATION AND USE THE MATERIAL PROPERLY TO PROTECT EMPLOYEES AND ENVIRONM ENT.

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

HCC:T4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:=23.7C, 74.7F

Melt/Freeze Pt:=-111.1C, -168.F

Decomp Temp:>593.3C, 1100.F

Vapor Density:4.9

Spec Gravity:1.494

Evaporation Rate & Reference:>1 (CCL4=1)

Solubilit

y in Water:0.1% @ 77F (25C)

Appearance and Odor:CLEAR, COLORLESS LIQUID WITH FAINT ETHEREAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALUMINUM POWDER, ZINC POWDER, ALKALI, ALKALINE EARTH METALS

Stability Condition to Avoid:OPEN FLAMES, EXCESSIVE HEAT, ARCS, GLOWING METAL SURFACE

Hazardous Decomposition Products:HYDROCHLORIC ACID, HYDROFLUORIC ACID AND POSSIBLY CARBONYL HALIDES SUCH AS PHOSGENE

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

Waste Disposal Methods:RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY. COMPLY WITH LOCAL, STATE AND FEDERAL REGULATIONS. DO NOT VENT TO THE ATMOSPHERE. REPORTABLE QUANTITY IS 5000 POUNDS.

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 their

particular situation.