

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

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Box:City:RICHMOND

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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

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

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

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

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

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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.

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