

DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- R-502 -- 6830-01-357-6905

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

Product ID:R-502

MSDS Date:10/03/1995

FSC:6830

NIIN:01-357-6905

MSDS Number: BXWPC

=== 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

P

reparer'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:CHLORODIFLUOROMETHANE (SARA 313) (CERCLA); TOTAL PERCENTAGE  
OF INGREDIENTS 1 AND 2 IS 100.

CAS:75-45-6

RTECS #:PA6390000

Fraction by Wt: SEE ING

Other REC Limits:NONE RECOMMENDE

D  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9495  
Ozone Depleting Chemical:2

Ingrid Name:CHLOROPENTAFLUOROETHANE (SARA 313)  
CAS:76-15-3  
RTECS #:KH7877500  
Fraction by Wt: SEE # 1%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:1000 PPM  
ACGIH TLV:1000 PPM; 9495  
Ozone Depleting Chemical:1

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

LD50 LC50 Mixture:TLV 1,000 PPM.  
Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Ha

zards Acute and Chronic:TARGET ORGANS:CNS, EYE, SKIN, LUNG.  
ACUTE- HARMFUL IF INHALED. MAY CAUSE HEART IRREGULARITIES,  
UNCONSCIOUSNESS OR DEATH. INTENTIONAL MISUSE IS FATAL. VAPOR  
REDUCES OXYGEN & IS HEAVIER THAN AIR. EYE/SK IN CONTACT WITH LIQUID  
CAN CAUSE FROSTBITE. VAPORS CAN CAUSE EYE IRRITATION. INGESTION IS  
UNLIKELY. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE  
Effects of Overexposure:TEMPORARY NERVOUS SYSTEM DEPRESSION WITH  
ANAESTHETIC EFFECTS SUCH AS DIZZ  
INESS, HEADACHE, CONFUSION,  
INCOORDINATION, LOSS OF CONSCIOUSNESS, IRREGULAR PULSE,  
PALPITATIONS, INADEQUATE CIRCULATION, FROST BILTE, IRRITATION,  
BLURRED VISION, TEARING

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PREEEXISTING  
DISEASES OF THE CENTRAL NERVOUS OR CARDIOVASCULAR SYSTEM MAY HAVE  
INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURE.

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

First Aid:GET MEDICAL ATTENTION IF NEEDED.

EYE/SKIN:IMMEDIATELY FLUSH

WITH PLENTY OF WATER. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:INGESTION IS NOT CONSIDERED A POTENTIAL ROUTE OF EXPO SURE. NOTE TO PHYSICIAN:CATECHOLAMINE DRUGS SHOULD BE USED WITH SPECIAL CAUTION ONLY IN SITUATIONS OF EMERGENCY LIFE SUPPORT.

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

Flash Point:NONE

Extinguishing Media:WATER, CO2, FOAM OR DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXP

USED CONTAINERS COOL & FLUSH SPILLS AWAY.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS. SEE 1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE NO 12.

Unusual Fire/Explosion Hazard:THIS PRODUCT CAN BE DECOMPOSED BY HIGH TEMPERATURES (OPEN FLAMES, GLOWING METALS) FORMING HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND TRACES OF CARBONYL HALIDES.

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

Spill Releas

e Procedures:VENTILATE AREA, ESPECIALLY LOW PLACES WHERE VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF-CONTAINED BREATHING APPARATUS FOR LARGE SPILLS OR RELEASES.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENTILATED AREA, AWAY FROM FLAMES & INCOMPATIBLE MATERIALS. DO NOT HEAT ABOVE 125F.

Other Precautions:AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT.

WASH WITH SOAP AND WATER BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION. NEVER USE IN CONFINED OR CLOSED SPACES WITHOUT PROPER PROTECTIVE E QUIPMENTS.

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

Respiratory Protection:WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OPERATED IN POSITIVE PRESSURE MODE OR SUPPLIED-AIR RESPIRATOR WITH FULL FACEPIECE AND OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE IF A LARGE RELEASE OC

CURS.

Ventilation:NORMAL VENTILATION IS SUFFICIENT. LOCAL EXHAUST WHEN LARGE AMOUNTS ARE RELEASED, MECHANICAL VENTILATION IN LOW PLACES

Protective Gloves:LINED BUTYL GLOVES

Eye Protection:CHEMICAL SPLASH GOGGLES/FACE SHIELD

Other Protective Equipment:EYEBATH, SAFETY SHOWER, PROTECTIVE CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. DO NOT WEAR CONTAMINATED CLOTHING.

Supplemental Safety and Health

THIS 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 ENVIRONMENT.

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:-41F(CLF2C)

Melt/Freeze Pt:M.P/F.P Text:-256F,-160C

Decomp Temp:Decomp Text:1170F,632C

Vapor Density:>1

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:>1 (C

CL4 = 1)

Solubility in Water:0.30 BY WT @ 25C/77F

Appearance and Odor:CLEAR, COLORLESS LIQUEFIED GAS - SLIGHT ETHEREAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

ALKALI OR ALKALINE EARTH METALS, POWDERED ALUMINUM, ZINC, BERYLLIUM, ETC.

Stability Condition to Avoid:FLAME, GLOWING METAL SURFACES

Hazardous Decomposition Products:MAY FORM HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND TRA

CES OF CARBONYL HALIDES.

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

Waste Disposal Methods:RECLAIM BY DISTILLATION. CONSULT LOCAL, STATE  
AND FEDERAL AUTHORITIES.

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.