

DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- R-500 -- 6830-01-358-5123

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

Product ID:R-500

MSDS Date:10/03/1995

FSC:6830

NIIN:01-358-5123

MSDS Number: BXWPS

=== 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

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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

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Country:US

Phone:804-279-3125

CAGE:02LX8

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

Ingred Name:DICHLORODIFLUOROMETHANE (SARA 313) (CERCLA); TOTAL
PERCENTAGE OF INGREDIENTS 1 AND 2 IS 100.

CAS:75-71-8

RTECS #:PA8200000

Fraction by Wt: SEE ING

Other REC Limits:NONE RECOMMEN

DED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS
Ozone Depleting Chemical:1

Ingred Name:ETHANE, 1,1-DIFLUORO
CAS:75-37-6
RTECS #:KI1410000
Fraction by Wt: SEE # 1%
Other REC Limits:NONE RECOMMENDED

===== 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:CARD
IOVASCULAR &

PERIPHERAL NERVOUS SYSTEMS. ACUTE- IF INHALED IN CONCENTRATIONS ABOVE 1000 PPM MAY CAUSE IRRITATION, NARCOSIS & ASPHYXIATION. MAY CAUSE FROSTBITE IF EYES OR SKIN WAS EXP OSED TO LIQUID OR SPRAY. INGESTION IS UNLIKELY DUE TO EXISTANCE AS A GAS AT ROOM TEMPERATURES. CHRONIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:EYE AND/OR SKIN FROSTBITE, NARCOSIS, ASPHYXIATION, RESPIRATORY TRACT IRRITATION, DIZZINESS, TREMORS, UNCONSCIOUSNESS, CARDIAC ARREST

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH CARDIAC ARRHYTHMIA OR RESPIRATORY DISORDERS MAY BE AT INCREASED RISK IN SEVERE EXPOSURES.

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

First Aid:GET MEDICAL ATTENTION IN ALL CASES. EYE/SKIN:FLUSH WITH WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. TREAT FOR FROSTBITE, IF NEEDED. INHALED:REMOVE TO FRESH AIR & PROVIDE OXYGEN/CPR IF NEEDED. ORAL:NOT A POTENTIAL ROUTE OF EXPOSURE; GET MEDICA

L ATTENTION IF
NECESSARY.

===== 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 CYLINDERS.

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:MAY FORM CORROSIVE AND TOXIC HYDROGEN

FLUORIDE, HYDROGEN CHLORIDE AND/OR PHOSGENE ABOVE 600C (1112F). CYLINDERS MAY RUPTURE.

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

Spill Release Procedures:KEEP UPWIND. VENTILATE ENCLOSED SPACES UNTIL GAS IS DISPERSED. DO NOT SMOKE OR OPERATE INTERNAL COMBUSTION ENGINES IN IMMEDIATE VICINITY. IF 5000 LBS (RQ) OR MORE IS RELEASED, NOTIFY THE NATIONAL RESPONSE CENTER AT 800-424-8802.

Neutralizing Agent:NOT RELEVANT

=====

= Handling and Storage =====

Handling and Storage Precautions:STORE IN WELL-VENTILATED, DRY, COOL (BELOW 125F) PLACE AWAY FROM OPEN FLAMES AND INCOMPATIBLE MATERIALS. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:AVOID BREATHING VAPORS. AVOID EYE OR SKIN CONTACT. WASH WITH SOAP AND WATER AFTER HANDLING AND BEFORE EATING OR DRINKING. USE WITH ADEQUATE VENTILATION.

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

Respiratory Protection:NONE

NORMALLY REQUIRED. IF TLV EXCEEDED, WEAR NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS OR SUPPLIED-AIR RESPIRATOR, OPERATED IN POSITIVE PRESSURE MODE.

Ventilation:USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

Protective Gloves:CLOTH-LINED RUBBER GLOVES

Eye Protection:SAFETY GOGGLES/FACE SHIELD

Other Protective Equipment:EYEBATH, SAFETY SHOWER, PROTECTIVE CLOTHING

Work Hygienic Practices:OBSERVE GOOD PERSONAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

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:-22F;CL2F2C

Melt/Freeze Pt:M.P/F.P Text:-252F,-158C

Decomp Temp:Decomp Text:>1112F,>600

Vapor Density:>1

Spec Gravity:NO

T RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:GAS

Solubility in Water:INSOLUBLE

Appearance and Odor:COLORLESS LIQUEFIED GAS - FAINT ETHEREAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

CHEMICALLY ACTIVE METALS SUCH AS SODIUM, POTASSIUM, CALCIUM, POWDERED ALUMINUM, ZINC AND MAGNESIUM

Stability Condition to Avoid:OPEN FLAME, EXTREMELY HOT/GLOWING METAL SURFACES, HIGH

TEMPERATURES

Hazardous Decomposition Products:MAY FORM HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND/OR PHOSGENE ABOVE 600C (1112F).

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

Waste Disposal Methods:FOR DISCHARGE OR DISPOSING OF MATERIAL, CONSULT LOCAL, STATE AND FEDERAL AUTHORITIES. DO NOT WENT TO ATMOSPHERE. RECYLCE PRODUCT.

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