

DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- R-114 -- 6830-01-356-1203

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

Product ID:R-114

MSDS Date:10/02/1995

FSC:6830

NIIN:01-356-1203

MSDS Number: BXWNC

=== 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

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

Ingred Name:DICHLOROTETRAFLUOROETHANE (SARA 313)

CAS:76-14-2

RTECS #:KI1101000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9495

Ozone Depleting

Chemical:1

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===== 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:CARDIOVASCULAR &  
RESPIRATORY SYSTEMS. ACUTE- IF INHALED IN CONCENTRATIONS ABOVE 1000  
PPM MAY CAUSE IRRITATION, NARCOSIS & ASPHYXIATION. MAY CAUSE  
FROSTBITE IF EYES OR SKIN WAS EXPOSED 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.

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

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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 MEDICAL ATTENTION IF  
NECESSARY.

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

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHEMICAL  
FOR SURROUNDING FIRE. USE WATER SPRAY TO COO

L 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. CYLINDERS MAY RUPTURE.

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

Spill Release Procedures:KEEP UPWIND. VENTILATE ENCLOSED SPACES UNTIL  
GAS IS

DISPERSSED. DO NOT SMOKE OR OPERATE INTERNAL COMBUSTION  
ENGINES IN IMMEDIATE VICINITY.

Neutralizing Agent:NOT RELEVANT

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===== 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.

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===== 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 Equi

ment: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 ENVIRONM  
ENT. OTHER TRADE NAMES: HALON 242, FREON 114, REFRIGERANT 114.  
CONVERSION FACTOR: 1 PPM = 7.10 MG/M3.

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:38.0F,3.3C

Melt/Freeze Pt:M.P/F.P Text:-137F,-94C

Vapor Density:5.90

Spec Gravity:NOT RELEVANT

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:GAS

Solubility in Water:0.01%

Appearance and Odor:COLORLESS LIQUEFIED GAS - FAINT ETHEREAL ODOR

Percent Volatiles by Volume:100

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

Stability Indicator/Mater

ials to Avoid: YES

CHEMICALLY ACTIVE METALS SUCH AS SODIUM, POTASSIUM, CALCIUM, POWDERED ALUMINUM, ZINC AND MAGNESIUM; ACIDS AND ACID FUMES

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

Hazardous Decomposition Products: MAY FORM CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN FLUORIDE, HYDROGEN CHLORIDE AND/OR PHOSGENE.

===== 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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