

DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- R-114 -- 6830-01-356-1205

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

Product ID:R-114

MSDS Date:10/02/1995

FSC:6830

NIIN:01-356-1205

MSDS Number: BXWNF

=== 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

Pr

eparer'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: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 C

hemical: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: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.

=====  
===== 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 MEDICAL 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. CYLINDERS MAY RUPTURE.

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

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

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

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 Equip

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.

=====  
===== 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

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

Stability Indicator/Materi

als 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.

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.