

DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- R-12 -- 6830-01-355-6648

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

Product ID:R-12

MSDS Date:10/02/1995

FSC:6830

NIIN:01-355-6648

MSDS Number: BXWNB

=== 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:DICHLORODIFLUOROMETHANE (SARA 313) (CERCLA)

CAS:75-71-8

RTECS #:PA8200000

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:1000 PPM

ACGIH TLV:1000 PPM; 9495

EPA Rpt Q

ty:5000 LBS  
DOT Rpt Qty:5000 LBS  
Ozone Depleting Chemical: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 &  
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 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 ABOVE 600C (1112F).  
CYLINDERS MAY RUPTURE.

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

Leak 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:US

E 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. OTHER TRADE NAMES: HALON 122, PROPELLANT 12, FREON 12, REFRIGERANT 12. CONVERSION FACTOR: 1 PPM = 5.03 MG/M3.

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

HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:-22F,-30C

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

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

Vapor Density:4.2

Spec Gravity:1.29

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:GAS

Sol

ubility 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 FLUORID  
E, 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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