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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

Prep

arer'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: 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 Qty:

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.

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========	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.

Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, FOAM OR DRY CHE MICAL

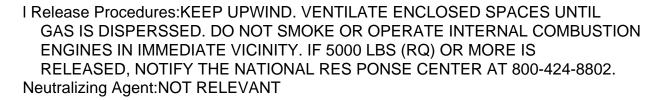
FOR SURROUNDING FIRE. USE WATER SPRAY TO COOL FIRE EXPOSED CYLINDERS.

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 ==========

Spil



========== 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 G

ENERAL 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 U

SE THE MATERIAL PROPERLY TO PROTECT EMPLOYEES AND ENVIRONM ENT. 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 & Dry Reference: GAS

Solubi

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 ===========

lity in Water: INSOLUBLE

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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