

DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- 1211 -- 6830-01-376-8015

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

Product ID:1211

MSDS Date:10/04/1995

FSC:6830

NIIN:01-376-8015

MSDS Number: BXWQN

=== 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

Pre

parer'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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Phone:804-279-3125

CAGE:02LX8

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

Ingred Name:BROMOCHLORDIFLUOROMETHANE (HALON 1211) (SARA 313)

CAS:353-59-3

Fraction by Wt: 100%

Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

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LD50 LC50 Mixture:NOT KNOWN

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:CNS, EYES, SKIN, LUNGS.

ACUTE- EYE:CONTACT WITH LIQUID CAN CAUSE "FREEZER" BURNS.

SKIN:LIQUID CAN CAUSE FROSTBITE. ORAL:NOT LIKELY. HOWEVER, MILDLY

TOXIC, AFFECTING CNS. INHALE:AT CONCENTRATIONS >20,000 PPM,

IRREGULARITIES IN THE CENTRAL NERVOUS SYSTEM AND CARDIAC MUSCLE ARE EXHIBITED. CHRO

NIC- UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:FROSTBITE, EYE BURNS, HEADACHE, DIZZINESS, CONFUSION, INCOORDINATION, UNCONSCIOUSNESS, IRREGULAR PULSE, CONVULSION

Medical Cond Aggravated by Exposure:ANEMIA, ASTHMA, DERMAL SENSITIVITY AND LOW BLOOD PRESSURE

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

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH WATER FOR 15 MINUTES, HOLDING EYELIDS OPEN. SKIN:REMOVE

CONTAMINATED CLOTHING AND WASH EXPOSED SKIN WITH LARGE AMOUNT OF WATER. INHALED:RE MOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED. ORAL:NOT A POTENTIAL ROUTE OF EXPOSURE.

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

Flash Point:NONE

Extinguishing Media:THIS IS FIRE EXTINGUISHER. COOL FIRE EXPOSED CONTAINERS WITH WATER WELL AFTER FIRE IS OUT TO PREVENT POSSIBLE EXPLOSIONS

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED SELF-CON

TAINED BREATHING APPARATUS. SEE 1990 EMERGENCY RESPONSE GUIDEBOOK, DOT P 5800.5, GUIDE NO 12.

Unusual Fire/Explosion Hazard:IRRITATING AND/OR TOXIC GASES DUE TO DECOMPOSITION OF THE PRODUCT MAY BE GENERATED DURING A FIRE. CONTAINERS MAY EXPLODE DUE TO FIRE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENTS. VENTIALTE AREA. CONTAIN SPILL. COLLECT SPILL WITH ABSORBENT MATERIAL AND PLACE INTO A DRUM APPROVE

D FOR WASTE DISPOSAL.
Neutralizing Agent:NOT RELEVANT

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Handling and Storage
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Handling and Storage Precautions:STORE IN A COOL, WELL-VENTILATED AREA AWAY FROM HEAT, FLAMES, HOT SURFACES AND INCOMPATIBLE MATERIALS. DO NOT SMOKE WHILE WORKING WITH THIS PRODUCT.

Other Precautions:AVOID EYE AND SKIN CONTACT. DO NOT INHALE VAPORS. KEEP OUT OF REACH OF CHILDREN. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING

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Exposure Controls/Personal Protection
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Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS MUST BE WORN.

Ventilation:PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE TO A MINIMUM LEVEL.

Protective Gloves:NITRILE OR NATURAL RUBBER

Eye Protection:SPLASH PROOF GOGGLES WITH SIDE SHIELDS

Other Protective Equipment:EYE WASH STATION, EMERGENCY SHOWER,

IMPERVIOUS BODY COVERING AND BOOTS WHERE SPILLS OR SPLASHING OCCUR

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.

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Physical/Chemical Properties
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HCC:G3

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:24.8F,-4.0C

Melt/Freeze Pt:M.P/F.P Text:-256F,-160C

Decomp Temp:Decomp Text:850F,454C

Vapor Density:6.0

Spec Gravity:1.82

Viscosity:NOT RELEVANT

Evaporation Rate & Reference:NOT RELEVANT

Solubility in Water:NOT MISCIBLE

Appearance and Odor:COLORLESS LIQUEFIED GAS WITH SLIGHT ETHEREAL ODOR

Percent Volatiles by Volume:100

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Stability and Reactivity Data
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Stability Indicator/Materials

to Avoid: YES

ALKALINE EARTH METALS, ALKALI, POWDERED ALUMINUM, ZINC, BERYLLIUM

Stability Condition to Avoid: EXPOSURE TO FLAMES OR HOT SURFACES ABOVE
850F (454C)

Hazardous Decomposition Products: HYDROBROMIC, HYDROCHLORIC AND
HYDROFLUORIC ACIDS, POSSIBLY FREE HALIDES AND CARBONYL HALIDES

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

Waste Disposal Methods: RECOVERED MATERIAL CAN BE INCINERATED IN A
FURNACE WHERE PERMITTED. OBSERVE ALL LOCAL, STATE AND FEDERAL

REGULATIONS.

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