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## DDRV STOCK MAINTENANCE DIV/DDRV-M/ -- R-134A -- 6830-01-370-6207

Product ID:R-134A MSDS Date:10/20/1995 FSC:6830 NIIN:01-370-6207 MSDS Number: BXVSD === Responsible Party === Company Name: DDRV STOCK MAINTENANCE DIV/DDRV-M/ Address:8000 JEFFERSON DAVIS HWY City:RICHMOND State:VA ZIP:23297 Country:US Info Phone Num:804-279-3125 Emergency Phone Num:800-851-8061 CAG E: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 Ingred Name: ETHANE, 1,1,1,2-TETRAFLUORO

CAS:811-97-2 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED

LD50 LC50 Mixture:INHALATION-RAT-4/HR LC50=567

000 PPM Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:OVEREXPOSURE BY INHALATION TO VERY HIGH CONCENTRATIONS MAY CAUSE TEMPORARY ALTERATION OF THE HEART'S ELECTRICAL ACTIVITY WITH IRREGULAR PULSE, PALPITATIONS, OR INADEQUATE CIRCULATION. INTENTIONAL MISU SE OR DELIBERATE INHALATION MAY CAUSE DEATH WITH OUT WARNING. SKIN CONTACT WITH THE LIQUID MAY CAUSE FROSTBITE. Explanation of Car cinogenicity:MANUFACTURER STATES THAT NONE OF THE

COMPONENTS IN THIS MATERIAL IS LISTED AS CARCINOGENIC Effects of Overexposure:INHALED-NAUSEA, HEADACHE, WEAKNESS, DIZZINESS, CONFUSION, INCOORDINATION, LOSS OF CONSCIOUSNESS, COUGH, DISCOMFORT, SHORTNESS OF BREATH, IRREGULAR PULSE, HEART PALPITATIONS. FROSTBITE: WHITE TO RED SK IN, PAIN, BLISTERS. Medical Cond Aggravated by Exposure:CENTRAL NERVOUS SYSTEM DISEASES, CARDIOVASCULAR SYSTEM DISEASES.

======= Firs

First Aid:INHALATION: IMMEDIATELY REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT GIVE OXYGEN. CALL A PHYSICIAN. SKIN CONTACT: FLUSH WITH WATER. TREAT FOR FROSTBITE IF NECESSARY. EYE CONTACT: IMMEDIATELY FLUSH E YES WITH PLENTY OF WATER. CALL A PHYSICIAN. INGESTION: NOT CONSIDERED AS A POTENTIAL ROUTE OF EXPOSURE. NOTE TO DOCTOR: USE SPECIAL CAUTION WITH CATECHOLAMINE DRUGS, SUCH AS EPINEPHRINE.

======= Fire Fighting Mea

Flash Point Method:TOC Flash Point:WILL NOT BURN Autoignition Temp:Autoignition Temp Text:1382F Extinguishing Media:AS APPROPRIATE FOR COMBUSTIBLES IN AREA. Fire Fighting Procedures:USE WATER SPRAY TO COOL CONTAINERS. SELF-CONTAINED BREATHING APPARATUS (SCBA) IS REQUIRED IF CYLINDERS RUPTURE OR RELEASE UNDER FIRE CONDITIONS. Unusual Fire/Explosion Hazard:PRODUCT IS NOT FLAMMABLE AT AMBIENT TEMPERATURES AND PRESSURES. HOWEVER, IT CAN BE COMBUSTIBLE AT VE

## RY HIGH CONCENTRATIONS (>60%/VOLUME) AND >177F.

Spill Release Procedures: REVIEW FIRE AND EXPLOSION HAZARDS & SAFETY PRECAUTIONS BEFORE CLEANING-UP. VENTILATE AREA, ESPECIALLY LOW OR ENCLOSED PLACES WHERE HEAVY VAPORS MIGHT COLLECT. REMOVE OPEN FLAMES. USE SELF- CONTAINED B REATHING APPARATUS IF LARGE SPILL OR LEAK OCCURS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

====== Handling an

Handling and Storage Precautions:STORE IN A COOL, DRY PLACE AWAY FROM INCOMPATIBLE MATERIALS. DO NOT HEAT ABOVE 125F (52C).
Other Precautions:AVOID BREATHING VAPORS. AVOID CONTACT WITH SKIN WITH LIQUID OR COLD VAPORS. USE WITH SUFFICIENT VENTILATION TO KEEP EMPLOYEE EXPOSURE BELOW RECOMMENDED LIMITS. DO NOT MIX WITH AIR OR USE WITH AIR ABOV E ATMOSPHERIC PRESSURE.

======= Exposure Controls/Personal Protection ==========

Respiratory

Protection:UNDER NORMAL MANUFACTURING CONDITIONS, NO RESPIRATORY PROTECTION IS NORMALLY REQUIRED. UNDER EMERGENCY CONDITIONS; USE NIOSH/MSHA APPROVED SELF-CONTAINED BREATHING APPARATUS. USE IAW 29 CFR 1910.134 A ND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:NORMAL VENTILATION FOR STANDARD MANUFACURING PROCEDURES IS GENERALLY ADEQUATE. LOCAL EXHAUST USED FOR LARGE RELEASES.

Protective Gloves: IMPERVIOUS

Eye Protection: CHEMICAL SPLASH GOGGLES

Other Protective Equipment:NONE SPE

CIFIED BY MANUFACTURER.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE. Supplemental Safety and Health

DENSITY=1.21 G/CC AT 25 C (77F)[LIQUID]. CONTACT WITH CHLORINE OR OTHER STRONG OXIDIZING AGENTS SHOULD ALSO BE AVOIDED. THIS MSDS WAS GENERATED BY HMIS FOR RECOVERED R-134A PREPARED AT DDRV DEPOT.

HCC:G3 Boiling Pt:B.P. Text:-15F,-26 C Vapor Pres:4963 MM HG Vapor Density:3.6 Solubility in Water:SLIGHT Appearance and Odor:CLEAR, COLORLESS GAS; SLIGHT ETHEREAL ODOR Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES ALKALI OR ALKALINE EARTH METALS-POWDERED AL, ZN, BE, ETC. Stability Condition to Avoid:AVOID OPEN FLAMES AND HIGH TEMPERATURES; INCOMPATIBLE MATERIALS. Hazardous Decomposition Products:HYDROFLUORIC ACID, POSSIBLY CARBON

YL

FLUORIDE.

Waste Disposal Methods:COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. RECLAIM BY DISTILLATION OR REMOVE TO A PERMITTED WASTE DISPOSAL FACILITY.

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