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## ELF ATOCHEM NORTH AMERICA INC -- FORANE 134A -- 6830-01-370-6207

Product ID:FORANE 134A MSDS Date:10/13/1992 FSC:6830 NIIN:01-370-6207 MSDS Number: BWZNV === Responsible Party === Company Name: ELF ATOCHEM NORTH AMERICA INC Address: THREE PARKWAY 908 City:PHILADELPHIA State:PA ZIP:19102-1321 Country:US Info Phone Num:215-587-7513/7779 Emergency Phone Num:215-587 -7513/7779 CAGE:86460 === Contractor Identification === Company Name: ELF ATOCHEM NORTH AMERICA INC Address:2000 MARKET STREET Box:City:PHILADELPHIA State:PA ZIP:19103-3222 Country:US Phone:800-245-5858 CAGE:86460

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

Ingred Name:1,1,1,2-TETRAFLUOROETHANE (R134A) CAS:811-97-2 Fraction by Wt: 100%

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO Reports o

f Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic:EYES: VERY SLIGHT IRRITANT. RAPID VOLATILIZATION OF LIQUID MAY CAUSE FROSTBITE. SKIN: SLIGHT IRRITANT, CONTACT MAY CAUSE FROSTBITE. INHALATION: CONCENTRATED VAPORS CAN CAUSE RESPIRATORY DEPRESSION, IN CREASES SENSITIVITY OF THE HEART TO ADRENALINE, DEPRESSION OF CARDIAC FUNCTION, DEATH DUE TO ASPHYXIATION. Explanation of Carcinogenicity:NONE Effects of Overexposure:IRRITANT, DROWSINESS, UNCONSCIOUSNE SS, RAPID HEATBEAT, IRREGULAR HEARTBEAT. Medical Cond Aggravated by Exposure:PREEXISTING HEART DISEASE.
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First Aid:SKIN: IF FROSTBITTEN, WARM SLOWLY W/WATER. FLUSH W/PLENTY OF WATER. EYES: FLUSH W/PLENTY OF CLEAN WATER FOR 15 MINS. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE CPR. IF BREATHING IS DIFFIC ULT, GIVE OXYGEN. INGESTION: NEVER GIVEANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. OBTAIN MEDI CAL ATTENTION IN ALL CASES.
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Flash Point:NONFLAMMABLE Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR SCBA. KEEP CONTAINERS COOL. Unusual Fire/Explosion Hazard:CONTAINER MAY EXPLODE IF HEATED DUE TO RESULTING PRESSURE RISE.
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Spill Release Procedures:REMOVE/EXTINGUISH IGNITION/COMBUSTION SOURC ES. EVACUATE ENCLOSED SPACES UNTIL GAS IS DISPERSED. KEEP UPWIND. STOP LEAK IF POSSIBLE W/OUT RISK. DISPERSE GAS W/FLOOR-LEVEL FORCED-AIR VENTILATION. EXHAUS T VAPORS OUTDOORS. REMOVE FLAMES/HEAT
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Handling and Storage Precautions: KEEP CONTAINER CLOSED. KEEP AWAY FROM IGNITION SOURCES. STORE IN TIGHTLY CLOSED CONTAINES. EMPTY CONTAINERS CONTAIN HAZARDOUS RESIDUE.

Other Precautions:DON'T DROP, REUSE/REFILL CON

TAINER. DON'T CUT, GRIND/ WELD ON/NEAR CONTAINER. DON'T GET IN EYES, ON SKIN/CLOTHING. DON'T BREATHE VAPOR, MIST/GAS. Respiratory Protection: IN INADEQUATELY VENTILATED AREAS, A NIOSH/MSHA APPROVED (TC-18C) SUPPLIED AIR RESPIRATOR/SCBA IS RESQUIRED. Ventilation: CHECK AIR FOR CONTAMINANT & FOR OXYGEN DEFICIENCY. USE LOCAL EXHAUST SYSTEM IF VENTILATION IS INADEQUATE. Protective Gloves: SYNTHETIC RUBBER/NEOPRENE Eve Protection:GOGGLES Other Protective Equipment: LIQUID GLOVES ARE RECOMMENDED FOR PROTECTION FROM COLD. Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES. Supplemental Safety and Health HCC:G3 Boiling Pt:B.P. Text:-16F,-26C Melt/Freeze Pt:M.P/F.P Text:-150F,-101C Vapor Pres:96.16 Vapor Density:3.52 Spec Gravity:1.21 Solubility in Water:NEGLIGIBLE Appearance and Odor:C LEAR, COLORLESS LIQUIFIED GAS W/FAINT ETHEREAL ODOR Percent Volatiles by Volume:100 Stability Indicator/Materials to Avoid:YES STRONG ALKALIE/ALKALINE EARTH METALS, ALUMINUM, MAGNESIUM/ZINC & STRONG OXIDIZERS

Stability Condition to Avoid:FLAMES, HEATING ELEMENTS, TEMP >800F, HOT METAL SURFACES, COMBUSTION ENGINES & OTHER IGNITION SOURCES Hazardous Decomposition Products:HYDROGEN FLUORIDE, CO, CO2,

HYDROCHLORIC

Waste Disposal Methods:RECYCLE/RECLAIM IF POSSIBLE. RECLAIMED MATERIAL MAY BE INCINERATED BUT TOXIC & CORROSIVE COMBUSTION PRODUCTS MUST BE HANDLED APPROPRIATELY. DISPOSE OF IAW/LOCAL, STATE & FEDERAL REGULATIONS.

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