ELF ATOCHEM NORTH AMERICA AGCH -- 04389 FORANE(R) 404A _____ MSDS Safety Information _____ FSC: 6850 MSDS Date: 09/29/1995 MSDS Num: CCFVD LIIN: 00F051832 Product ID: 04389 FORANE(R) 404A MFN: 01 Responsible Party Cage: 86460 Name: ELF ATOCHEM NORTH AMERICA INC AGCHEM DIV Address: 2000 MARKET ST City: PHILADELPHIA PA 19103-3222 Info Phone Number: 215-419-7667/409-779-0060 Emergency Phone Number: 409-779-0060/215-419-7667 Review Ind: Y Published: Y _____ Preparer Co. when other than Responsible Party Co. _____ Cage: 86460 Name: ELF ATOCHEM NORTH AMERICA INC Address: 2000 MARKET STREET City: PHILADELPHIA PA 19103-3222 _____ Contractor Summary Cage: 86460 Name: ELF ATOCHEM NORTH AMERICA INC Address: 2000 MARKET STREET City: PHILADELPHIA PA 19103-3222 Phone: 800-245-5858 _____ Ingredients _____ Cas: 811-97-2 Name: 1,1,1,2-TETRAFLUOROETHANE (R134A) % Wt: 4 _____ Cas: 420-46-2 RTECS #: KJ4110000 Name: ETHANE, 1,1,1-TRIFLUOROETHANE % Wt: 52 Cas: 354-33-6 Name: PENTAFLUOROETHANE % Wt: 44 _____ Health Hazards Data _____ Route Of Entry Inds - Inhalation: YES Skin: NO Ingestion: YES Carcinogenicity Inds - NTP: NO IARC: NO

OSHA: NO Effects of Exposure: EYES: RAPID VOLATILIZATION OF LIQUID MAY CAUSE FROSTBITE, MILD IRRITATION. SKIN: IRRITATION, FROSTBITE. Explanation Of Carcinogenicity: NONE Signs And Symptions Of Overexposure: IRRITATION First Aid: SKIN: FLUSH W/LUKEWARM WATER/USE OTHER MEANS TO WARM SLOWLY. EYES: FLUSH W/PLENTY OF WATER. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING GIVE CPR. IF BREATHING IS DIFFICULT, GIVE OXYGEN. DON'T GI VE ADRENALINE, EPINEPHRINE/SIMILAR DRUGS FOLLOWING EXPOSURE TO PRODUCT. OBTAIN MEDICAL ATTENTION IN ALL CASES. _____ Handling and Disposal _____ Spill Release Procedures: REMOVE/EXTINGUISH IGNITION/COMBUSTION SOURCES. EVACUATE ENCLOSED SPACES UNTIL GAS IS DISPERSED. KEEP UPWIND. STOP LEAK IF POSSIBLE W/O RISK. DISPERSE GAS W/FLOOR-LEVEL FORCED-AIR VENTILATION. EXHAUST VAPORS OUTDOORS. REMOVE ALL FLAMES. 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. Handling And Storage Precautions: MINIMIZE VAPORIZATION BY SEALING IN A TTGHTLY CLOSED CONTAINER. STORE IN A COOL WELL-VENTILATED AREA. KEEP AWAY FROM HEAT, SPARKS & FLAMES. Other Precautions: AVOID EYE & SKIN CONTACT. AVOID BREATHING THIS SUBSTANCE. WHEN TRANSFERRING FROM CONTAINERS, GROUND & BOND BOTH CONTAINERS TO PREVENT STATIC CHARGE BUILD-UP. EMPTY CONTAINERS CONTAIN HAZARDOUS VAPOR & PRODUCT RESIDUE. (SEE SUPP) Fire and Explosion Hazard Information Flash Point Text: NONFLAMMABLE Extinguishing Media: WATER SPRAY/FOG, CO2, DRY CHEMICAL/WATER STREAM Fire Fighting Procedures: WEAR FULL FIRE FIGHTING TURN OUT GEAR FULL BUNKER GEA & SCBA PRESSURE DEMAND MSHA/NIOSH APPROVED/EQUIVALENT. DECONTAMINATE FIRE EOUIPMENT AFTER USE. Unusual Fire/Explosion Hazard: MAY DECOMPOSE DURING CONTACT W/FLAMES, HEATING ELEMENTS/COMBUSTION ENGINES RELEASING IRRITATING, TOXIC & CORROSIVE GASES. CONTAINER MAY RUPTURE DUE TO HEAT. _____ Control Measures _____ Respiratory Protection: USE NIOSH/MSHA APPROVED FULL FACE SUPPLIED AIR RESPIRATOR/SCBA. Ventilation: DILUTION VENTILATION ACCEPTABLE, LOCAL MECHANICAL EXHAUST PREFERRED Protective Gloves: CHEMICAL RESISTANT Eve Protection: CHEMICAL GOGGLES Other Protective Equipment: EYE FLUSHING EQUIPMENT, CHEMICAL RESISTANT CLOTHING. Work Hygienic Practices: REMOVE/LAUNDER CONTAMINATED CLOTHING/SHOES BEFORE REUSE. CLEAN PROTECTIVE EQUIPMENT BEFORE REUSE.

Supplemental Safety and Health: HANDLING & STORAGE CONT'D: RESIDUAL VAPORS MAY EXPLODE ON IGNITION. DON'T CUT, DRILL/WELD ON/NEAR CONTAINER. _____ Physical/Chemical Properties _____ B.P. Text: -54F Vapor Pres: 169.6 Vapor Density: 3.36 Spec Gravity: 1.08 Solubility in Water: NEGLIGIBLE Appearance and Odor: CLEAR, COLORLESS LIQUIFIED GAS W/FAINT ETHEREAL ODOR Percent Volatiles by Volume: 100 _____ Reactivity Data Stability Indicator: YES Stability Condition To Avoid: FLAMES, WELDING ARCS, POTENTIAL IGNITION SOURCES/OTHER HIGHT TEMPERATURE SOURCES WHICH INDUCE THERMAL DECOMPOSITION. Materials To Avoid: STRONG ALKALI/ALKALINE EARTH METALS, FINELY POWDERED METALS, ALUMINUM, MAGNESIUM/ZINC & STRONG OXIDIZERS. Hazardous Decomposition Products: HYDROGEN FLUORIDE, CO, CO2 Hazardous Polymerization Indicator: NO _____ Toxicological Information _____ _____ Ecological Information MSDS Transport Information _____ Regulatory Information _____ Other Information _____ HAZCOM Label Product ID: 04389 FORANE(R) 404A Cage: 86460 Company Name: ELF ATOCHEM NORTH AMERICA INC Street: 2000 MARKET STREET City: PHILADELPHIA PA Zipcode: 19103-3222 Health Emergency Phone: 409-779-0060/215-419-7667 Label Required IND: Y Date Of Label Review: 10/12/1999 Status Code: A Origination Code: G Hazard And Precautions: EYES: RAPID VOLATILIZATION OF LIQUID MAY CAUSE FROSTBITE, MILD IRRITATION. SKIN: IRRITATION, FROSTBITE. _____ Disclaimer (provided with this information by the compiling agencies): This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever expressly or implied

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