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ELF ATOCHEM NORTH AMERICA INC FINE CHEMICALS -- 04022-004 FORANE 22 6830-00-935-9896 Product ID:04022-004 FORANE 22 MSDS Date:02/13/1996 FSC:6830 NIIN:00-935-9896 MSDS Number: BRSTW === Responsible Party === Company Name: ELF ATOCHEM NORTH AMERICA INC FINE CHEMICALS Address:2000 MARKET STREET City:PHILADELPHIA State:PA ZIP:19103-3222 Country:US Info Phone Num:8 00-558-5575 FAX 215-419-7413 Emergency Phone Num:800-558-5575 716-877-1740 Preparer's Name: PRODUCT SAFETY CAGE:86460 === Contractor Identification === **Company Name: ATOCHEM NORTH AMERICA INC** Address:3 PARKWAY RM 910 Box:City:PHILADELPHIA State:PA ZIP:19102 Country:US Phone:215-587-7197 **CAGE:0N628** 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 Company Name: REFRIGERATION SALES CO INC Addr

ess:38-18 33RD ST Box:City:LONG ISLAND CITY State:NY ZIP:11101-2211 Country:US Phone:800-221-0603 CAGE:3A676

Ingred Name:CHLORODIFLUOROMETHANE (SARA 313) (CERCLA) CAS:75-45-6 RTECS #:PA6390000 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9596 Ozone Depleting Chemical:2

LD50 LC50 Mixture:TLV= 1000 PPM (3450 MG /M3)

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

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:ACUTE: INHALATION OF HIGH CONCENTRATIONS IN ENCLOSED OR CONFINED AREAS MAY CAUSE RESPIRATORY DEPRESSION, ASPHYXIA DUE TO OXYGEN DISPLACEMENT; INCREASES

SENSITIVITY TO ADRENALIN. CONTACT WITH EYES MAY CAUSE IRRITATION. SKIN CONTACT WITH LIQUID MAY CAUSE FROSTBITE. CHRONIC: NONE

SPECIFIED BY MANUFACTURER.

Explanation of Carcinogenic

ity:NO INGREDIENT OF A CONCENTRATION OF 0.1%

OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN. Effects of Overexposure:INHALED-DROWSINESS, UNCONSCIOUSNESS, RESPIRATORY DEPRESSION, DEATH; RAPID HEARTBEAT (TACHYCARDIA), IRREGULAR HEARTBEAT (CARDIAC ARRYTHMIAS), AND DEPRESSED CARDIAC FUNCTION. EYES- IRRITATION, FROZEN EY E TISSUE. SKIN-FROZEN SKIN TISSUE/FROSTBITE.

Medical Cond Aggravated by Exposure:PERSONS WITH PREEXISTING HEART DISEASE MAY BE AT INCREASED RISK FROM EXPOSURE.

First Aid:SKIN-FLUSH SKIN WITH WARM WATER. GET MEDICAL ATTENTION IF FROSTBITTEN OR IF SYMPTOMS OCCUR. EYES-FLUSH WITH LOTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. INHALED-REMOVE TO FRESH AIR. G IVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF BREATHING DIFFICULT. GET MEDICAL ATTENTION.

Flash Point

:NON-FLAMMABLE

Autoignition Temp:Autoignition Temp Text:1170F

Extinguishing Media:USE MEDIA APPROPRIATE FOR SURROUNDING FIRE. Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE GEAR. THOROUGHLY DECONTAMINATE FIREFIGHTERS GEAR AFTER USE.

Unusual Fire/Explosion Hazard:MAY DECOMPOSE DURING CONTACT W/FLAMES, HEATING ELEMENTS OR IN COMBUSTION ENGINES RELEASING IRRITATING,TOXIC & CORROSIVE GASES.CONTAINER MAY EXPLODE IF HEATED.

Spill Release Procedures: KEEP UPWIND. EVACUATE ENCLOSED SPACE. ELIMINATE ALL SOURCES OF IGNITION. STOP LEAK IF FEASIBLE. DISPERSE GAS WITH FLOOR-LEVEL FORCED VENTILATION; EXHAUST GAS OUTDOORS. WASH CONTAMINATED CLOTHES BEFORE REUSE. DESTROY CONTAMINATED SHOES. Neutralizing Agent: NONE SPECIFIED BY MANUFACTURER.

Handling and Storage Precautions: STORE IN TIGHTLY CLOSED CO NTAINERS.

KEEP CONTAINER CLOSED. KEEP AWAY FROM HEAT, SPARKS AND FLAMES. EMPTY CONTAINER MAY CONTAIN HAZARDOUS RESIDUES.

Other Precautions:DO NOT DROP, REUSE OR REFILL CONTAINER. DO NOT SMOKE. READ LABEL BEFORE USE. DO NOT CUT, GRIND, OR WELD ON OR NEAR CONTAINER DUE TO POSSIBLE FUME GENERATION.

Respiratory Protection: IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR AN EMERGENCY OCCURS; WEAR AN MSHA/NIOSH APPROVED AIR-SUPPLIED RESPIRATOR OR SCBA, AS REQUIRED. USE IN ACCORDANCE WITH 29 CFR 1910.134 AND MANUFACTURE R'S RECOMMENDATIONS.
Ventilation:USE ADEQUATE MECHANICAL VENTILATION OR LOCAL EXHAUST TO MAINTAIN EXPOSURE BELOW TLV(S).
Protective Gloves:LINED SYNTHETIC RUBBER.
Eye Protection:CHEMICAL SPLASH GOGGLES.
Other Protective Equipment:PROTECT ALL EXPOSED SKIN FROM CONTACT WITH LIQUID.
Work Hygienic Practices:WASH HANDS AFTER HANDLING AND BEFORE EATING, DRINKING, OR SMOKIN
G. LAUNDER CONTAMINATED CLOTHES BEFORE REUSE.
Supplemental Safety and Health NONE

HCC:G3 Boiling Pt:B.P. Text:-41F,-41C Melt/Freeze Pt:M.P/F.P Text:-256F,-160C Vapor Pres:7031 MM HG Vapor Density:2.98 Spec Gravity:1.17 Evaporation Rate & amp; Reference:NONE SPECIFIED BY MFR. Solubility in Water:SLIGHT Appearance and Odor:COLORLESS, LIQUIFIED GAS; FAINT ETHEREAL ODOR. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES
STRONG ALKALIS, ALKALIE EARTH METALS, FINELY POWDERED METALS AND STRONG OXIDIZING AGENTS.
Stability Condition to Avoid:THERMAL DECOMPOSITION.
Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS INCLUDE HYDROGEN FLUORIDE, HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON DIOXIDE, CHLORINE.

Waste Disposal Methods:RECYCLE OR RECL

AIM IF POSSSIBLE. RECLAIMED

MATERIAL MAY BE INCINERATED BUT TOXIC AND CORROSIVE COMBUSTION PRODCUTS (HF & HCL) MUST BE HANDLED APPROPRIATELY. CONSULT LOCAL, STATE AND FEDERAL AUTHORITIE S FOR PROPER DISPOSAL PROCEDURES.

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