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ELF ATOCHEM NORTH AMERICA INC -- FORANE (R) 114 -- 6830-00-088-3385

Product ID:FORANE (R) 114 MSDS Date:03/11/1992 FSC:6830 NIIN:00-088-3385 **MSDS Number: BTKNQ** === Responsible Party === Company Name: ELF ATOCHEM NORTH AMERICA INC Address:3 PARKWAY City:PHILADELPHIA State:PA ZIP:19102-1321 Country:US Info Phone Num:215-587-7639 Emergency Phone Num:215-587-7639 CAGE :86460 === 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 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

Ingred Name:1,2-DICHLOROTETRAFLUOROETHANE CAS:76-14-2 RTECS #:KI11010 00 Fraction by Wt: 100% Other REC Limits:NONE RECOMMENDED OSHA PEL:1000 PPM ACGIH TLV:1000 PPM; 9394 Ozone Depleting Chemical:1

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 2,250 MG/KG Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO Health Hazards Acute and Chronic: EYE-IRRITANT. SKIN-IRRITANT. Explanation of Carcinogenicity: THIS PRODUCT DOES NOT CONTAIN ANY COMPONENETS LISTED BY NTP OR IARC OR REGULATED BY OSHA AS CARCINOGENS. Effects of Overexposure: EYE-VAPOR IS IRRITATING TO EYES. LIQUID IS IRRITATING TO EYES & MAY CAUSE TISSUE TO FREEZE. SKIN-CONTACT WITH LIQUID MAY CAUSE TISSUE TO FREEZE (FROST BITE). CHEMICAL ITSELF IS NOT IRRITATING. Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER. First Aid:INGESTION-N/A, PRODUCT IS A GAS AT AMBIENT CONDITIONS. NEV ER GOVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. DERMAL- FLUSH EXPOSED SKIN WITH LUKEWARM WATER (NOT HOT) OR USE OTHER MEANS TO WARM SKIN S LOWLY. EYE-FLUSH WITH PLENTY OF WATER FOR AT LEAST 15

MIN. INHALATION-REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF HARD TO BREATH, GIVE OXYGEN. GET MEDICAL ATTENTN IN ALL CAS

Flash Point:NONFLAMMABLE Extinguishing Media:USE EXTINGUISHIN G MEDIA APPROPIATE TO SURROUNDING FIRE CONDITIONS.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS IN FIGHTING FIRES NEAR THIS PRODUCT DUE TO TOXICITY OF THERMAL DECOMPOSITION PRODUCTS. KEEP CONTAINERS COOL.

Unusual Fire/Explosion Hazard:MAY DECOMPOSE DURING HEATING RELEASING IRRITATING, TOXIC & CORROSIVE GASES. CONTAINERS MAY EXPLODE IF HEATED DUE TO RESULTING PRESSURE RISE.

Spill Release

Procedures: KEEP UPWIND, EVACUATE ENCLOSED SPACE. REMOVE OR EXTINGUISH IGNITION SOURCES. STOP LEAK IF POSSIBLE WITHOUT RISK. DISPERSE GAS WITH FLOOR-LEVEL FORCED-AIR VENTILATION. EXHAUST VAPORS OUTDOORS. REMOVE A LL FLAMES, HEATING ELEMENTS & GAS ENGINES.

Handling and Storage Precautions: KEEP AWAY FROM HEAT, SPARKS & FLAMES. STORE IN TIGHTLY CLOSED CONTAINERS. KEEP CONTAINERS CLOSED. EMPTY CONTAINER MAY

CONTAIN HAZARDOUS RESIDUES.

Other Precautions: TOXICITY COMMENTS: DENSE VAPOR DISPLACES BREATHING AIR IN CONFINED OR UNVENTILATED AREAS. INHALING CONCENTRATED VAPORS CAN CAUSE DROWSINESS, UNCONSCIOUSNESS, RESPIRATORY DEPRESSION AND DEATH DUE TO AS PHYXIATION.

Respiratory Protection: IF INADEQUATELY VENTILATED AREAS, A NIOSH/MSHA APPROVED (TC-19C) SUPPLIED AIR RESPIRATOR OR SELF-CONTAINED **BREATHING APPARATUS I** S REQUIRED. Ventilation: USE WITH ADEQUATE VENTILATION. WHERE VENTILATION IS INADEQUATE, USE A LOCAL EXHAUST SYSTEM TO REMOVE VAPORS. Protective Gloves: SYNTHETIC RUBBER SUCH AS NEOPRENE, LINED Eye Protection: USE GOGGLES TO PROTECT EYES. Other Protective Equipment: PROTECT ALL EXPOSED SKIN FROM LIQUID. Work Hygienic Practices: WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

DO NOT GET ON SKI

N OR IN EYES. DO NOT BREATHE VAPORS OR MIST. DESTROY CONTAMINATED SHOES. DO NOT SMOKE. READ LABEL BEFORE USE. DO NOT CUT, GRIND OR WELD ON OR NEAR CONTAINER DUE TO POSSIBLE TOXIC FUME S GENERATION.

HCC:G3 Boiling Pt:=3.8C, 38.7F B.P. Text:38.8F,3.8C Melt/Freeze Pt:=-93.9C, -137.F M.P/F.P Text:-137F,-94C Vapor Pres:27.26 PSIA Vapor Density:5.9 Spec Gravity:1.44 Solubility in Water:SLIGHT Appearance and Odor:COLORLE SS LIQUIDFIED GAS WITH FAINT ETHERAL ODOR. Percent Volatiles by Volume:100

Stability Indicator/Materials to Avoid:YES

- STRONG ALKALI OR ALKALINE EARTH METALS, FINELY POWDERED METALS SUCH AS ALUMINUM, MAGNESIUM OR ZINC & STRONG OXIDIZERS.
- Stability Condition to Avoid:THERMAL DECOMPOSITION DUE TO EXPOSURE TO HEAT (>800F) OR FIRE.
- Hazardous Decomposition Products: THERMAL DECOMPOSITION PRODUCTS INCLUDE HYDROGEN FLUORIDE
- , HYDROGEN CHLORIDE, CARBON MONOXIDE, CARBON DIOXIDE, CHLORINE.
- Conditions to Avoid Polymerization: FLAMES, IGNITION SOURCES, HEATING ELEMENTS, COMBUSTION EHGINES, ETC.

Waste Disposal Methods:RECYCLE OR RECALIM IF POSSIBLE. RECLAIM MATERIAL MAY BE INCINERATED BUT TOXIC AND CORROSIVE COMBUSTION PRODUCTS (HF AND HCL) MUST BE HANDLED APPROPIATELY. CONSULT FEDERAL, STATE AND LOCAL AUTHORITIES FOR PROPER DISPOSA L.

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