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ELF ATOCHEM NORTH AMERICA INC AGCHEM DIV -- FORANE 11 -- 6830-00-281-3036

Product ID:FORANE 11 MSDS Date:06/01/1995

FSC:6830

NIIN:00-281-3036

MSDS Number: BZXRW === Responsible Party ===

Company Name: ELF ATOCHEM NORTH AMERICA INC AGCHEM DIV

Address:2000 MARKET ST

City:PHILADELPHIA

State:PA

ZIP:19103-3222 Country:US

Info Phone Num:215-419-7667/409-779-0060

Emerge

ncy Phone Num:409-779-0060/215-419-7667

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:FLUOROTRICHLOROMETHANE, FREON 11, TRICHLOROFLUOROMETHANE, TRICHLOROMONOFLUOROMETHANE

CAS:75-69-4

RTECS #:PB6125000 Fraction by Wt: 100%

Other REC Limits: 1000 PPM MSHA

OSHA

PEL:1000 PPM ACGIH TLV:C 5600 MG/CUM EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS Ozone Depleting Chemical:1

============= Hazards Identification ========================

LD50 LC50 Mixture:ORAL LD50(RATS): >3725 MG/KG Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: EYES: MILDLY IRRITATING. INHALATION:

EXPOSURE TO HIGH CONCENTRATIONS MAY AFFECT THE NERVOUS SYSTEM & PRODUCE RAPID ANESTHETIC

EFFECT. PROLONGED EXPOSURE TO AN OXYGEN

DEFICIENT ATOMOSPHERE MAY BE FATAL & MAY CAUSE AN INCREASE IN THE SENSITIVITY OF THE HEART TO ADRENALINE WHICH CAN RESULT IN REDUCED HEART FUNCTION.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:DRYNESS, REDNESS, IRRITATION, HEADACHE, DIZZINESS, DROWSINESS, CYANOSIS, LACK OF MUSCLE CONTROL, COLLAPSE, IRREGULAR/RAPID HEARTBEATS.

First Aid: INGESTION: DON'

T INDUCE VOMITING. GIVE WATER TO DRINK. NEVER
GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SKIN: FLUSH
W/LUKEWARM/USE OTHER MEANS TO WARM SLOWLY. EYES: IMMEDIATELY FLUSH
W/PLENTY OF WATER FOR 15 MINS. INHALATION: REMOVE TO FRESH AIR.
GIVE CPR/OXYGEN IF NEEDED. OBTAIN MEDICAL ATTENTION IN ALL CASES.

========= Fire Fighting Measures ==============

Flash Point: NONFLAMMABLE

Extinguishing Media:USE EXTINGUISHING MEDIA APPROPRIATE TO SURROUNDING FIRE CON

DITIONS.

Fire Fighting Procedures: WEAR SCBA. KEEP CONTAINERS COOL.

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

======== Accidental Release Measures ===========

Spill Release Procedures:REMOVE/EXTINGUISH IGNITION/COMBUSTION SOURCES. EVACUATE ENCLOSED SPACES UNTIL GAS IS DISPERSED. KEEP UPWIND. STOP LEAK W/O RISK. DISPERSE



=========== Handling and Storage =============

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

Other Precautions:DON'T GET IN EYES, SKIN/CLOTHING. DON'T BREATHE VAPOR, MIST/GAS. DON'T DROP, REUSE/REFILL CONTAINER.

DON'T SMOKE.

READ LABEL BEFORE USE. DON'T CUT, GRIND/WELD ON/NEAR CONTAINER DUE TO POSSIBLE TOXIC F UME GENERATION.

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

Respiratory Protection: USE NIOSH/MSHA APPROVED FULL FACE SUPPLIED AIR RESPIRATOR/SCBA, WHERE AIRBORNE EXPOSURE IS LIKELY.

Ventilation:DILUTION ACCEPTABLE, BUT LOCAL MECHANICAL EXHAUST PREFERRED.

Protective Gloves:SYNTHETIC RUBBER/NEOPRENE/LINED

Eye Protection: CHEMICAL GOGGLES

Other Protective Equi

pment: CHEMICAL RESISTANT PROTECTIVE CLOTHING.

Work Hygienic Practices:REMOVE/LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

COLLECT W/ABSORBENT MATERIAL & PLACE INTO A DRUM APPROVED FOR WASTE DISPOSAL/RECOVERY.

======== Physical/Chemical Properties ============

Boiling Pt:B.P. Text:74.8F

Melt/Freeze Pt:M.P/F.P Text:-168F

Vapor Pres:13.3 Vapor Density:4.74 Spec Gravity:1.46

Solubility in Water:SLIGHT

Appearance and Odor: COLORLESS LIQUID & GA

S W/FAINT ETHEREAL ODOR Percent Volatiles by Volume:100

======== Stability and Reactivity Data ==========

Stability Indicator/Materials to Avoid:YES

STRONG ALKALI/ALKALINE EARTH METALS, POWDERED METALS, ALUMINUM, MAGNESIUM, ZINC, STRONG OXIDIZERS.

Stability Condition to Avoid:FLAMES, HOT METAL SURFACES, HEATING ELEMENTS, TEMPS >800F.

Hazardous Decomposition Products:THERMAL: HYDROGEN FLUORIDE, HYDROGEN CHLORIDE, CO, CO2, CHLORINE.

========	=======	Disposa	al C
onsiderations	========	======	

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

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