

CHEMTRONICS INC -- FLUX-OFF (R) NR -- 6850-00-602-2347

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Product Identification  
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Product ID:FLUX-OFF (R) NR  
MSDS Date:08/19/1994  
FSC:6850  
NIIN:00-602-2347  
Status Code:A  
MSDS Number: CLMFC  
=== Responsible Party ===  
Company Name:CHEMTRONICS INC  
Address:8125 COBB CENTER DRIVE  
City:KENNESAW  
State:GA  
ZIP:30152  
Country:US  
Info Phone Num:800-TECH-401/800-645-5244  
Emergency Phone Num:(800)424-9300  
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Resp. Party Other MSDS Num.:MSDS # 0303  
Preparer's Name:MICHAEL S. WATKINS  
Chemtrec Ind/Phone:(800)424-9300  
CAGE:21267  
=== Contractor Identification ===  
Company Name:CHEMTRONICS INC  
Address:8125 COBB CENTER DRIVE  
Box:City:KENNESAW  
State:GA  
ZIP:30152  
Country:US  
Phone:770-424-4888/800-645-5244  
CAGE:21267

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Composition/Information on Ingredients  
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Ingred Name:1,1,2-TRICHLOROTRIFLUOROETHANE  
CAS:76-13-1  
RTECS #:KJ4000000  
Minumum % Wt:80.  
Maxumum % Wt:85.  
OSHA PEL:7600 M

G/M3;1000 PPM  
ACGIH TLV:7670 MG/M3;1000 PPM  
ACGIH STEL:9590 MG/M3;1250 PPM  
Ozone Depleting Chemical:1

Ingred Name:ETHANE, NITRO-  
CAS:79-24-3  
RTECS #:KI5600000  
Minumum % Wt:.1  
Maxumum % Wt:1.  
OSHA PEL:310 MG/M3;100 PPM  
ACGIH TLV:307 MG/M3;100 PPM

Ingred Name:METHANOL  
CAS:67-56-1  
RTECS #:PC1400000  
Minumum % Wt:5.  
Maxumum % Wt:10.  
OSHA PEL:260 MG/M3;200 PPM  
ACGIH TLV:262 MG/M3;200 PPM  
ACGIH STEL:328 MG/M3;250 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:CARBON DIOXIDE  
CAS:124-38-9  
R  
TECS #:FF6400000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
OSHA PEL:9000 MG/M3;5000 PPM  
ACGIH TLV:9000 MG/M3;5000 PPM  
ACGIH STEL:54000 MG/M3

Ingred Name:CHLORODIFLUOROMETHANE  
CAS:75-45-6  
RTECS #:PA6390000  
Minumum % Wt:10.  
Maxumum % Wt:15.  
ACGIH TLV:3540 MG/M3;1000 PPM  
Ozone Depleting Chemical:2

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

LD50 LC50 Mixture:C/CE..PLS FILL OUT THIS SECTION  
Health Hazards Acute and Chronic:EYE: LIQUID, AEROSOLS AND VAPORS OF  
THIS PRODUCT ARE IR

IRITATING. INGESTION: HARMFUL IF SWALLOWED.

IRRITATING TO MOUTH, THROAT AND STOMACH. INHALATION: HARMFUL IF INHALED. HIGH CONCENTRATION IN IMMEDIATE AREA CAN DISPLACE OXYGEN AND CAN CAUSE DIZZINESS, UNCONSCIOUSNESS, AND EVEN DEATH WITH LONGER EXPOSURE. KEEP PEOPLE AWAY FROM SUCH VAPORS WITHOUT SELF CONTAINED BREATHING APPARATUS.

Explanation of Carcinogenicity:NONE PROVIDED BY MFR

Effects of Overexposure:EYE: PAIN, TEARING, REDDENING AND SWELLING ACCOMPLANIED BY A STINGI

NG SENSATION. INGESTION: MAY CAUSE

VOMITING. INHALATION: HIGH CONCENTRATIONS OF VAPORS IN IMMEDIATE AREA CAN DISPLACE OXYGEN AND CA N CAUSE DIZZINESS, UNCONSCIOUSNESS, AND EVEN DEATH WITH LONGER EXPOSURE.

Medical Cond Aggravated by Exposure:HEART, LUNG, SKIN, EYE

===== First Aid Measures =====

First Aid:EYE: IMMEDIATELY FLUSH WITH PLENTY OF WATER. AFTER INITIAL FLUSHING, REMOVE ANY CONTACT LENSES AND CONTINUE FLUSHING FOR AT LEAST 15 M

INUTES. HAVE EYES EXAMINED AND TESTED BY MEDICAL

PERSONNEL IF IRRI TATION DEVELOPS OR PERSISTS. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSIST. WASH CLOTHING BEFORE REUSE.

INGESTION: INDUCE VOMITI NG IMMEDIATELY AS DIRECTED BY MEDICAL PERSONNEL. KEEP HEAD BELOW KNEES TO MINIMIZE CHANCE OF ASPIRATING MATERIAL INTO THE LUNGS. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTE NTI

ON

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

Flash Point Method:TCC

Flash Point:NONE TO BOILING

Lower Limits:NOT ESTABLIS

Upper Limits:NOT ESTABLIS

Extinguishing Media:USE ALCOHOL FOAM, CARBON DIOXIDE, OR WATER SPRAY WHEN FIGHTING FIRES INVOLVING THIS MATERIAL

Fire Fighting Procedures:AS IN ANY FIRE, WEAR SELF CONTAINED BREATHING APPARATUS (PRESSURE DEMAND, MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR

Unusual Fire/Explosion Hazard:NONE PROV

IDED BY MFR

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

Spill Release Procedures:LG: SHUT OFF LEAK IF SAFE TO DO SO. WEAR SELF CONTAINED BREATHING APPARATUS AND PERSONAL PROTECTIVE EQUIPMENT. ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN A WASTE CONTAINER FOR DISPOSAL. DO NOT FLUSH TO SEWER. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. SM: ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH),

PLACE IN A WASTE CONTAINER.  
Neutralizing Agent:NONE PROVIDED BY MFR

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

Handling and Storage Precautions:AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN, AND CLOTHING. WASH HANDS BEFORE EATING. USE WITH ADEQUATE VENTILATION. AVOID BREATHING PRODUCT VAPOR OR MIST. DO NOT REUSE THIS CONTAINER. STORE IN A COOL DRY PLACE AWAY FROM HEAT, SPARKS AND FLAME. KEEP CONTAINER CLOSED WHEN NOT USE.

Other Precautions:DO NOT STORE IN DIRECT SUNLIGHT. KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:WEAR A POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR IN SITUATIONS WHERE THERE MAY BE POTENTIAL FOR AIRBORNE EXPOSURE  
Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMANTS TO WITHIN  
Protective Gloves:RUBBER OR OTHER CHEMICALLY RESISTANT GLOVES WHEN HANDLING THIS PRODUCT  
Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES) AND A FULL FACE SHIELD  
Other Protective Equipment:NONE PROVIDED BY MFR  
Work Hygienic Practices:NONE PROVIDED BY MFR  
Supplemental Safety and Health  
NONE PROVIDED BY MFR

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

HCC:V2  
Boiling Pt:=39.6C, 103.3F  
Melt/Freeze Pt:M.P/F.P Text:NA  
Decomp Temp:Decomp Text:NONE PROVIDED BY MFR  
Vapor Pres:429 MM HG @ 70 F (AIR=1)  
Vapor

Density:2.8 @ 77 F  
Spec Gravity:1.48 (WATER=1)  
pH:NA  
Viscosity:1 (APPROX) ( WATER=1)  
Evaporation Rate & Reference:< 1(BUTYL ACETATE=1)  
Solubility in Water:NEGLIGIBLE  
Appearance and Odor:CLEAR. COLORLESS LIQUID, ETHEREAL ODOR  
Percent Volatiles by Volume:100  
Corrosion Rate:NONE PROVIDED BY MFR

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

Stability Indicator/Materials to Avoid:YES  
DO NOT MIX WITH POWDERED ALKALI AND ALKALINE EARTH METALS OR STRONG  
OXIDIZING AGENTS

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Stability Condition to Avoid:DO NOT SPRAY NEAR OPEN FLAMES, RED HOT  
SURFACES OR OTHER SOURCES OF IGNITION.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY RELEASE  
CARBON MONOXIDE, CARBON DIOXIDE AND INCOMPLETELY BURNED  
HYDROCARBONS AS WELL AS HYDROFLUORIC AND HYDROCHLORIC ACID VAPORS

Conditions to Avoid Polymerization:WILL NOT OCCUR

===== Toxicological Information =====

Toxicological Information:TRICHLOROTRIFLUOROETHANE: LD50 (RAT): 43,000

MG/KG; LC50 (RAT)= 52,000 PPM/4 HR. METHYL ALCOHOL: LD50 (RAT)=  
5,628 MG/KG; LC50 (RAT)= 64,000 PPM/ 4 HR.

===== Ecological Information =====

Ecological:AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO  
WATERWAYS. CONTAINS TRICHLOROTRIFLUOROETHANE, CFC, A SUBSTANCE WHICH  
HARMS PUBLIC HEALTH AND THE ENVIRONMENT BY DESTROYING OZONE IN THE  
UPPER ATMOSPHERE.

===== Disposal Considerations =====

Waste Disposal Me

thods:DISPOSE OF IN ACCORDANCE WITH ALL FEDERAL,  
STATE, AND LOCAL REGULATIONS. WATER RUNOFF CAN CAUSE ENVIRONMENTAL  
DAMAGE.

===== MSDS Transport Information =====

Transport Information:PSN: AIR: AEROSOLS, NONFLAMMABLE,2.2, UN1950.  
GROUND: CONSUMER COMMODITY, ORM-D.

===== Regulatory Information =====

Federal Regulatory Information:TSCA INVENTORY STATUS: THE INGREDIENTS  
OF THIS PRODUCT ARE LISTED ON THE TSCA INVENT  
ORY.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):  
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