

CHEMTRONICS INC -- ELECTRO-WASH NX CLEANER DEGREASER (SEE SUPPLEMENTAL DATA) --  
6850-01-379-1038

===== Product Identification =====

Product ID:ELECTRO-WASH NX CLEANER DEGREASER (SEE SUPPLEMENTAL DATA)

MSDS Date:12/08/1998

FSC:6850

NIIN:01-379-1038

Status Code:A

MSDS Number: CKVJZ

=== 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 Ph

one Num:(800)424-9300

Resp. Party Other MSDS Num.:0207

Chemtec 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

===== Composition/Information on Ingredients =====

Ingred Name:DICHLOROFLUOROETHANE

CAS:1717-00-6

RTECS #:KI0997000

Minumum % Wt:90.

Maxumum % Wt:95.

ACGIH STEL:500 PPM

Ozone Depleting Chemical:2

Ingred Name:ETHYL ALCOHOL (DENATURED ALCOHOL)  
CAS:64-17-5  
RTECS #:KQ6300000  
Minumum % Wt:1.  
Maxumum % Wt:5.  
OSHA PEL:1900 MG/M3;1000 PPM  
ACGIH TLV:1880 MG/M3;1000 PPM

Ingred Name:METHYLCYCLOHEXANE  
CAS:108-87-2  
RTECS #:GV6125000  
Minumum % Wt:.1  
Maxumum % Wt:1.  
OSHA PEL:2000 MG/M3;500 PPM  
ACGIH TLV:1610 MG/M3;400 PPM

Ingred Name:CARBON DIOXIDE  
CAS:124-38-9  
RTECS #: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

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

Routes of Entry: Inhalation:YES Skin:UNKNOWN Ingestion:YES  
Reports of Carcinogenicity:NTP:NO IARC:NO  
Health Hazards Acute and Chronic:EYES: LIQUID AEROSOLS & VAPORS OF  
PRODUCT ARE IRRITATING & CAN CAUSE PAIN, TEARING, REDDENING &  
SWELLING ACCOMPANIED BY STINGING SENSATION. SKIN: CONTACT CAUSE  
SKIN IRRITATION. INGESTION: HARMFUL IF S WALLOWED. IRRITATING TO  
MOUTH, THROAT & STOMACH. MAY CAUSE VOMITING. INHALATION:  
HARMFUL IF  
INHALED. HIGH CONCENTRATIONS OF VAPORS IN IMMEDIATE AREA CAN  
DISPLACE OXYGEN AND CAN CAUSE DIZZINESS, UNCONS CIOUSNESS, AND EVEN  
DEATH WITH LONGER EXPOSURE. KEEP PEOPLE AWAY FROM SUCH VAPORS  
WITHOUT SELF-CONTAINED BREATHING APPARATUS.  
Explanation of Carcinogenicity:NO INGREDIENTS LISTED AS HUMAN  
CARCINOGENS BY NTP OR IARC.  
Effects of Overexposure:LIQUID WILL IRRITATE EYES AND SKIN UNDER  
REPEATED OR PROLONGED EXPOSURE. BREATHING HIGH CONCENTRATIONS OF  
PRODUC

T VAPORS MAY PRODUCE DROWSINESS AND A HEADACHE.  
Medical Cond Aggravated by Exposure:HEART, LUNG, SKIN, EYE.

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

First Aid:EYES: IMMEDIATELY FLUSH WITH PLENTY WATER. AFTER INITIAL FLUSHING REMOVE CONTACT LENSES & CONTINUE FLUSHING FOR >15 MIN. HAVE EYES EXAMINED & TESTED BY DOCTOR IF IRRITATION DEVELOPS/PERSISTS. SKIN: WASH WITH SOAP/WATER. REMOVE CONTAMINATED CLOTHING. GET MEDICAL HELP IF IRRITATION DEVELOPS/PERSISTS.

WASH CLOTHING SEPARATELY

BEFORE REUSE. INGESTION: DO NOT INDUCE VOMITING. KEEP HEAD BELOW KNEES TO MINIMIZE ASPIRATION INTO LUNGS. NEVER GIVE ANYTHING BY MOUTH IF UNCONSCIOUS. GET MEDICAL HELP IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULT, GIVE OXYGEN. GET MEDICAL HELP.

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

Flash Point Method:TCC

Flash Point:NONE TO BOILING

Lower Limits:7.

4

Upper Limits:15.5

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

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

Unusual Fire/Explosion Hazard:NOT PROVIDED

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

Spill Release Procedures:LARGE SPILLS: SHUT OFF LEAK IF POSSIBLE & SAFE TO DO SO.

WEAR SELF-CONTAINED BREATHING GEAR & APPROPRIATE PPE.

ABSORB SPILL WITH INERT MATERIAL (E.G. DRY SAND OR EARTH), THEN PLACE IN CHEMICAL WASTE CONTAINER FOR PROPER DISPOSAL. DO NOT FLUSH TO SEWER. AVOID RUNOFF INTO STORM SEWERS, DITCHES, WATERWAYS. SMALL SPILLS: ABSORB SPILL WITH INERT MATERIAL (SAND/EARTH) & PLACE IN CONTAINER FOR DISPOSAL.

Neutralizing Agent:NOT PROVIDED

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

Handling and Storage Precautions:

AVOID PROLONGED/REPEATED CONTACT WITH EYES, SKIN, CLOTHING. WASH HANDS BEFORE EATING. USE WITH ADEQUATE VENTILATION. AVOID BREATHING PRODUCT VAPOR/MIST. DO NOT REUSE CONTAINER. STORE IN COOL DRY PLACE AWAY FROM HEAT, SPARKS, FLAMES & AWAY FROM DIRECT SUNLIGHT. KEEP CONTAINER CLOSED WHEN NOT IN USE.  
Other Precautions:KEEP OUT OF REACH OF CHILDREN.

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

Respiratory Protection:LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR TLVS DURING THE USE OF THIS PRODUCT.

Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS.

Protective Gloves:RUBBER OR OTHER CHEMICALLY RESISTANT.

Eye Protection:SAFETY GLASSES WITH SIDE SHIELDS.

Other Protective Equipment:NOT PROVIDED

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

FORMERLY KNOWN AS ELECTRONICS/CLEANER DEGREASER 2000, PRODUCT CODES: ES1601, ES2201, ES1601C, AND ES2201C.

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

HCC:V2

Boiling Pt:=32.2C, 90.F

B.P. Text:DICHLOROTLUOROETHANE

Vapor Pres:493 @70F (LIQUID)

Vapor Density:>1

Spec Gravity:1.23

pH:NA

Viscosity:1 APPROX (WATER=1)

Evaporation Rate & Reference:>1 (BUTYL ACETATE=1)

Solubility in Water:NEGLIGIBLE

Appearance and Odor:CLEAR COLORLESS LIQUID, ETHERAL ODOR.

Percent Volatiles by Volume:100

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

Stability Indic

ator/Materials to Avoid: YES  
DO NOT MIX WITH POWDERED ALKALI AND ALKALINE EARTH METALS OR STRONG  
OXIDIZING AGENTS.  
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 HYDROCHLORIC AND HYDROFLUORIC ACID VAPOR.

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

Toxic  
ological Information: INHALATION: DICHLOROFLUOROETHANE - LC50 RATS  
- 62000 PPM/4HRS, CO2 - LCLO HUMAN - 9 PPH/5 MIN, ETHANOL - LC50  
RATS - 20000 PPM/10HR, METHYLCYCLOHEXANE - LC50 MOUSE - 41500  
MG/M3/2HRS. SKIN: DICHLOROFLUOROETHANE - LD50 RATS >2MG/KG,  
METHYLCYCLOHEXANE - RABBIT LD >86700 MG/KG, ETHANOL - RABBIT - 400  
MG OPEN MLD. INGESTION: DICHLOROFLUOROETHANE - LD50 RATS >5 MG/KG,  
ETHANOL - LD50 RAT - 7060 MG/KG, METHYLCYCLOHEXANE - LDLO MOUSE -  
2250 MG/KG. EYE:  
ETHANOL - RABBIT - 500 MG SEV

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

Ecological: ENVIRONMENTAL IMPACT DATA (PERCENTS BY WEIGHT): CFC - 0.0%,  
HCFC - 92.5%, CL SOLV - 0.0%, VOC - 5.0%, HFC - 0.0%, ODP - 0.10%.  
FOR MORE INFO CALL 800-645-5244.

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

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

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

Transport Information: AIR: AEROSOLS, NONFLAMMABLE N.O.S., UN1950, 2.2,  
NONFLAMMABLE GAS LABEL, PKG INSTR - 203, MAX QTY - 75KG; 150 KG.  
GROUND: CONSUMER COMMODITY ORM-D, ORM-D LABEL, PKG AUTH - 173.306.

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

SARA Title III Information: DICHLOROFLUOROETHANE IS A SARA 313 CHEMICAL.  
Federal Regulatory Information: ALL INGREDIENTS ARE LISTED IN TSCA  
INVENTORY.

State Regulatory Information:NOT PROVIDED

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

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