View NSN Online: https://aerobasegroup.com/nsn/6850-00-602-2347

Product ID:ES1692, FLUX-OFF NO CLEAN(FORMERLY HEAVY DUTY FLUX-OFF 2000) MSDS Date:10/01/2000 FSC:6850 NIIN:00-602-2347 Status Code:A **MSDS Number: CKYDN** === 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 Resp. Party Other MSDS Num.:#0307 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 Company Name: OMEGA ELECTRONICS Address:95 HARTFORD AVE Box:City:SAN CARLOS State:CA ZIP:94070 Country:US Phone:650-591-2510 Contract Num:SP045001-M-D575 CAGE:7W657

Ingred Name:DICHLOROFLUOROETHANE CAS:1717-00-6 RTECS #:KI0997000 Minumum % Wt:90. Maxumum % Wt:95. Other REC Limits:500 PPM (MFR) Ozone Depleting Chemical:2

Ingred Name:DENATURED ALCOHOL, A MIXTURE OF ETHANOL, ISOPROPANOL, ETHYL ACETATE

Ingred Name:ETHANOL 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:ISOPROPANO L CAS:67-63-0 RTECS #:NT8050000 Minumum % Wt:.1 Maxumum % Wt:1. OSHA PEL:980 MG/M3;400 PPM ACGIH TLV:983 MG/M3;400 PPM ACGIH STEL:1230 MG/M3;500 PPM

Ingred Name:ETHYL ACETATE CAS:141-78-6 RTECS #:AH5425000 Minumum % Wt:.1 Maxumum % Wt:1. OSHA PEL:1400 MG/M3;400 PPM ACGIH TLV:1440 MG/M3;400 PPM EPA Rpt Qty:5000 LBS DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL HYDROXYPROPIONATE CAS:97-64-3 RTECS #:OD5075000 Minumum % Wt:.1 Maxumum % Wt:1.

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

LD50 LC50 Mixture: DCFETHANE, ORAL, RAT LD50 >5,000 MG/KG. Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Reports of Carcinogenicity:NTP:NO IARC:NO Health Hazards Acute and Chronic: EYES: LIQUID, AEROSOLS, AND VAPORS OF THIS PRODUCT ARE IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING A CCOMPANIED BY A STINGING SENSATION. SKIN: CONTACT CAUSES SKIN IRRITATION. INGESTI ON: HARMFUL IF SWALLOWED. IRRITATING TOMOUTH, THROAT, AND STOMACH. MAY CAUSE VOMITING. INHALATION: HARMFUL IF INHALED, HIGH CONCENTRATIONS OF VAPORS 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:NO INGREDIENTS LIS **TED AS HUMAN** CARCINOGENS BY NTP OR IARC. Effects of Overexposure: EYES: IRRITATATION, PAIN, TEARING, REDDENING, AND SWELLING ACCOMPANIED BY A STINGING SENSATION. SKIN: IRRITATION. INGESTION: IRRITATION OF MOUTH, THROAT, AND STOMACH, VOMITING. INHALATION: DIZZINESS, UNCONSCIOUSNESS, AND EVEN DEATH WITH LONGER EXPOSURE. Medical Cond Aggravated by Exposure: PRE-EXISTING HEART, LUNG, SKIN, EYE MEDICAL CONDITIONS..

First Aid:EYES: IMMEDIATELY FLUSH WITH WATER. REMOVE CONTACT LENSES. CONTINUE FLUSHING FOR AT LEAST 15 MINUTES. HAVE EYES EXAMINED AND TESTED BY MEDICAL PERSONNEL IF IRRITATION DEVELOPS OR PERSISTS. SKIN: WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND WASH SEPARATELY BEFORE REUSE. INGESTION: DO NOT INDUCE VOMITING. KEEP HEAD BELOW KNEES TO MINIMIZE CHANCE OF ASPIRATING MATERIAL INTO LUNGS. NEV ER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GE T MEDICAL ATTENTION. INHALATION: MOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MED ICAL ATTENTION.

Flash Point Method:TCC Flash Point:NONE 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 FIRE, WEAR SELF-CONTAINED BREA THING APPARATUS (PRESSURE-DEMAND, MSHA/NIOSH APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.
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 Spill Release Procedures:LARGE SPILLS: SHUT OFF LEAK. WEAR A SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE EQUIPMENT. ABSORE SPILL WITH INERT MATERIAL (E.G., DRY SAND OR EARTH). THEN PLACE IN CHEMICAL WASTE CONTAINER FOR DISPOSAL. DO NOT FLUSH TO SEWER. AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEA D TO WATERWAYS. SMALL SPILLS: ABSORB SPILL WITH INERT MATERIAL.THEN PLACE IN CHEMICAL WASTE CONTAINER FOR DISPOSAL.
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 Handling and Storage Precautions: AVOID PROLONGED OR REPEATED CONTACT WITH EYES, SKIN, CLOTHING. USE WITH ADEQUATE VENTILATION. AVOID BREATHING PRODUCT VAPOR OR MIST. DO NOT REUSE THIS CONTAINER. STORE IN A COOL DRY PLACE AWAY FROM HE AT, SPARKS, FLAMES. KEEP CONTAINER CLOSED WHEN NOT IN US E. DO NOT STORE IN DIRECT SUNLIGHT. Other Precautions: WASH HANDS BEFORE EATING. KEEP OUT OF REACH OF CHILDREN.
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Respiratory Protection:AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND, MSHA/ NIOSH APPROVED). Ventilation:GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT TO CONTROL AIRBORNE LEVELS. Protective Gloves:WEAR RUBBER OR OTHER CHEMICALLY RESISTANT GLOVES WHEN HANDLING THIS MATERIAL.

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ye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES). Work Hygienic Practices:WASH HANDS BEFORE EATING. Supplemental Safety and Health LOCAL EXHAUST VENTILATION MAY BE NECESSARY TO CONTROL ANY AIR CONTAMINANTS TO WITHIN THEIR TLVS DURING THE USE OF THIS PRODUCT.

HCC:V2 Boiling Pt:=32.2C, 90.F B.P. Text:DICHLOROFLUOROETHANE Vapor Pres:517 MM HG@70F Vapor Density:>1(AIR=1) Spec Gravity:1.23 (H2O=1) Viscosity:1 (APPROX.) (H2O=1) Evaporation Rate & amp; Reference:>1 (BUTYL ACETATE=1) Solubility in Water:NEGLIGIBLE. Appearance and Odor:CLEAR, COLORLESS LIQUID; ETHEREAL ODOR. Percent Volatiles by Volume:100%

Stability Indicator/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 O

F IGNITION.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY RELEASE CARBON MONOXIDE, CARBON DIOXIDE, AND INCOMPLETELY BURNED HYDROCARBONS AS WELL AS HYDROCHLORIC AND HYDROFLUORIC ACID VAPOR. Conditions to Avoid Polymerization:WILL NOT OCCUR.

Toxicological Information:INHALATION: DICHLOROFLUOROETHANE: (RATS) LC50 = 61.647 PPM/ 4HRA; ETHANOL: (RATS) LC50= 20,000 PPM/10HR. INGESTION: DICHLOROFLUOROETHANE

, (RATS) LD50 = >5,000 MG/KG;

ETHANOL, (RATS) LD50 = 7,060MG/KG. ETHYL HYDROXYPROPIONATE, (RAT) LD50 =5,000 MG/KG. EYE: ETHANOL: RABBIT, 500 MG SEV. SKIN: DICHLOROFLUORETHANE, (RATS) LD50= >2,000 MG/KG; ETHANOL, RABBIT 400 MG OPEN MLD; ETHYL HYDROXYPROPIONSTE (RAB BIT) LD5O= 5,000MG/KG. MUTAGENIC EFFECTS: NONE. TERATOGENIC EFFECTS: NONE. REPRODUCTIVE EFFECTS: NONE. CANCER INFORMATION: NO INGREDIENTS LISTED AS HUMAN CARCINOGENS BY NTP OR IARC. Ecological:AVOID RUNOFF INTO STORM SEWERS AND DITCHES WHICH LEAD TO WATERWAYS. WATER RUNOFF CAN CAUSE ENVIRONMENTAL DAMAGE. US REGULATIONS REQUIRE REPORTING SPILLS OF THIS MATERIAL THAT COULD REACH ANY SURFACE W ATERS. THE TOLL FREE NUMBER FOR THE US COAST GUARD NATIONAL RESPONSE CENTER IS 1-800-424-8802. ENVIRONMENTAL IMPACT DATA: (PERCENT BY WEIGHT): CFC = 0.0%; HCFC = 94.7%; CT. SOL = 0.0%; VOC = 5.3%; HP C = 0.0%; ODP = 0 .10%.

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

Transport Information:AIR: AEROSOLS, NONFLAMMABLE N.O.S., UN 1950, CLASS 2.2, PKG = N/A, LABEL: NONFLAMMABLE GAS, PKG INSTR.: 203, MAX QUANTITY: 75 KG, 150 KG. GROUND: CONSUMER COMMODITY, ORM-D; U

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NUMBER: N/A; PKG: N/A; L ABEL: ORM-D; PKG. AUTH.; MAX QUANTITY: 173.306

SARA Title III Information: SECTION 313 SUPPLIER NOTIFICATION: THIS PRODUCT CONTAINS THE FOLLOWING TOXIX CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 (40 CFR 372). DICHLOROFLUOROETHANE, CAS# 1717-00-6, WT % 90.0% TO 95.0 %. THIS INFORMATION SH
OULD BE INCLUDED ON ALL MSDS'S COPIED AND DISTRIBUTED FOR THIS MATERIAL.
Federal Regulatory Information: ALL INGREDIENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

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