Product ID: PRECISION CLEANER II, MCC-PC2 MSDS Date:09/01/1995 FSC:6850 NIIN:01-411-7394 Status Code:A MSDS Number: CJMKC === Responsible Party === Company Name: MICRO CARE CHEMICAL CORP Address:34 RONZO RD City:BRISTOL State:CT ZIP:06010 Country:US Info Phone Num:203-585-7912 Emergency Ph one Num:203-585-7912 CAGE:0ATV9 === Contractor Identification === Company Name: GOURMET INQUE LTD Address:191 STANLEY ST Box:City:ELK GROVE VILLAGE State:IL ZIP:60007-1555 Country:US Phone:847-296-6192/FAX: 800-542-1042 Contract Num:SP0450-99-M-ND86 CAGE:0TNN7 Company Name: MICRO CARE CHEMICAL CORPORATION Address:34 RONZO ROAD Box:City:BRISTOL State:CT ZIP:06010 Country:US Phone:860-585-7912 CAGE:0ATV9

Ingred Name: TETRAFLUOROET

HANE CAS:811-97-2 = Wt:15. ACGIH TLV:1000 PPM

Ingred Name:DICHLOROFLUOROETHANE CAS:1717-00-6 RTECS #:KI0997000 = Wt:17. Ozone Depleting Chemical:2

Ingred Name:PERFLUORO COMPOUNDS, C5-18 CAS:86508-42-1 = Wt:61.

Ingred Name:PENTANE CAS:109-66-0 RTECS #:RZ9450000 = Wt:7. OSHA PEL:2950 MG/M3;1000 PPM ACGIH TLV:1770 MG/M3;600 PPM ACGIH STEL:2210 MG/M3;750 PPM

LD50 LC50 Mixture:TLV: 1000 PPM (TETRAFLUOROETHANE) Routes of Entry:

Inhalation:YES Skin:NO Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS: EYE, SKIN, CNS, HEART, RESPIRATORY AND GASTROINTESTINAL TRACTS (HMIS). ACUTE - EYE: LIQUID CONTACT WILL IRRITATE EYE AND MAY CAUSE CONJUCTIVITIS. VAPOR CONTACT: MILD IRRITANT. SKIN: DEF ATTING OF SKIN CAN CAUSE IRRITATION. NO ABSORPTION TOXICITY DATA IS AVAILABLE. INHALATION: AT LOW CONCENTRATION LEVELS: DROWSINESS, FLUSHING, HEADACHE,

DIZZINESS, LOSS OF CONCENTRATION, NAUSEA, IRRITA ITON. AT HIGH LEVELS: INTOXICATION AND CARDIAC ARRYTHMIA. PRODUCT VAPORS DISPLACE AIR AND CAN CAUSE ASPHYXIATION ESPECIALLY IN CONFINED SPACES. ORAL: SIMILAR TO INHALATION. DISCOMFORT DUE TO VOLATILIT Y WOULD BE EXPECTED. CHRONIC - UNKNOWN.

Explanation of Carcinogenicity:THE COMPONENTS OF PRECISION CLEANER II ARE NOT LISTED AS CARCINOGENS BY NTP, IARC OR OSHA. Effects of Overexposure:INHALATION & INGESTION: LOW CONC-DROWSINESS FLUSHING, HEADACHE, DIZZINESS, LOSS OF CONCENTRATION, NAUSEA & IRRITATION. HIGH CONC-INTOXICATION & CARDIAC ARRYTHMIA. CAN CAUSE ASPHYXIATION. SKIN: DEFAT TING CAUSING IRRITATION. EYES: IRRITATION AND CONJUNCTIVITUS.

First Aid:INHALATION: REMOVE TO FRESH AIR. DO NOT GIVE EPINEPHRINE. GIVE ARTIFICIAL RESPIRATION IF NEEDED. CALL PHYSICIAN. EYES: PERSONS WITH CONTACT LENSES SHOULD WEAR CHEMICAL PROTEC TIVE SAFETY

GLASSES WHEN U SING THIS PRODUCT. FLUSH WITH WATER FOR 15 MINUTES, LIFTING EYELIDS OCCASIONALLY UNTIL NO EVIDENCE OF THE CHEMICAL REMAINS. IF IRRITATION PERSISTS, CALL PHYSICIAN. SKIN CONTACT: WASH PROMPTLY WITH SOA P AND WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES. INGESTION: IF CONSCIOUS, GIVE 2-4 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF THROAT. DO NOT GIVE ST IMULANT. CONTACT PHYSICIAN IMMEDIATELY.

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Flash Point:NON FLAMMABLE

Extinguishing Media:CARBON DIOXIDE, DRY CHEMICAL OR WATER. Fire Fighting Procedures:KEEP CONTAINERS COOL WITH WATER SPRAY. WEAR SELF CONTAINED NIOSH APPROVED BREATHING APPARATUS, ALSO PROPER EYE AND SKIN PROTECTION. Unusual Fire/Explosion Hazard:CONTAINERS GENERATE PRESSURE WHEN HEATED

CAUSING VIOLENT BURSTING & DANGEROUS PROPELLING OF CONTAINER. FORMS TOXIC DECOMPOSITION PRODUCTS ABOVE 250F, 120C.

Spill Release Procedures: ALTHOUGH THE CHANCES OF A SIGNIFICANT SPILL/LEAK IS UNLIKELY IN AEROSOL CONTAINERS, IN THE EVENT OF SUCH OCCURANCE, EVACUATE AREA, ABSORB SPILLED LIQUID WITH COMMERCIAL, NONFLAMMABLE ABSORBENT, I.E. S AND, VERMICULITE. REMOVE UNPROTECTED PERSON. PROTECTED PERSONNEL SHOULD REMOVE IGNITION SOURCES. PROVIDE VENTILATION. SHOVEL (SPARK POOF) ABSORBENT MATERIAL INTO DRUMS AND

CLOSE. DO NOT FLUSH TO SEWER

Handling and Storage Precautions: AVOID BREATHING VAPORS. USE ONLY WITH ADEQUATE VENTILATION. AVOID LIGHTED CIGARETTE, FLAME, WELDING OR HOT SPOTS WHICH MAY GENERATE TOXIC DECOMPOSITION PRODUCTS. VAPORS ARE HEAVY AND MAY CONCENTRATE I N LOW POORLY VENTILATED AREAS. Other Precautions: KEEP OUT OF REACH OF CHILDREN.

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

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espiratory Protection: NONE REQUIRED IN VENTILATED WORK ARES. ALTHOUGH UNLIKELY IN AEROSOL PACKAGING, USE NIOSH APPROVED SELF CONTAINED OR SUPPLIED AIR RESPIRATOR FOR EMERGENCIES AND IN SITUATIONS WHERE AIR MAY BE DISPLACED BY VAPORS. Ventilation: VENTILATION: ADEQUATE. LOCAL EXHAUST: FOR POORLY VENTILATED WORK AREAS. MECHANICAL: ADEQUATE FOR STORAGE. Protective Gloves: NEOPRENE FOR LONG REPEATED CONTACT Eye Protection: CHEMICAL PROTECTIVE SAFETY GLASSES Other Protective Equipment:E YE BATH, WASHING FACILITY, EMERGENCY SHOWER, LAB COAT OR UNIFORM. Work Hygienic Practices: OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. Supplemental Safety and Health NONE

HCC:V2

Boiling Pt:B.P. Text:N/DETERMINED Vapor Pres:1861 MM HG (36 PSIG) @70F Vapor Density:>1 Spec Gravity:N/DETERMINED Evaporation Rate & amp; Reference:>1 (ETH ER=1) Solubility in Water:SLIGHT Appearance and Odor:COLORLESS LIQUID WITH ETHEREAL AND FAINT, SWEET ODOR. Percent Volatiles by Volume:10

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS & ALKALI REACTIVE METALS(E.G. POWDERED ALUMINUM, SODIUM, POTASSIUM, CALCIUM, MAGNESIUM, ZINC, MOLTEN ALUMINUM, BARIUM & LITHIUM SHAVINGS). STRONG OXIDIZING AGENTS. Stability Condition to Avoid:HEAT WILL DECOMPOSE ABOVE 480F ; 250

DEGREES C.

Hazardous Decomposition Products:HYDROCHLORIC AND HYDROFLUORIC ACIDS, CARBONYL HALIDES SUCH AS PHOSGENE.

Ecological:CONTAINS A CLASS II OZONE DEPLETING SUBSTANCE. COMPARED TO CFC-BASED CLEANERS, THIS CLEANER REDUCES OZONE-DEPLETING EMISSIONS BY 95% OR MORE. CONTAINS PERFLUOROCARBONS WHICH ARE EXTREMELY STABLE & WIL L REMAIN IN THE STRATOSPHERE FOR MANY YEARS.

====== Disposa

Waste Disposal Methods:COMPLY WITH LOCAL, STATE, AND FEDERAL REGULATIONS. CONSULT APPROPRIATE REGUALTORY AGENCY PRIOR TO DISPOSAL OR DISCHARGE OF WASTE MATERIAL.

SARA Title III Information:THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT (EPCRA) OF 1986 A

ND 40 CFR PART 372.: CAS: 1717-00-6 DICHLOROFLUOROETHANE:45.5% Federal Regulatory Information:TSCA LISTED.

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