ITW CHEMTRONICS® MSDS #0511 SECTION 1: CHEMICAL PRODUCT AND COMPANY INFORMATION **Company Address:** 8125 Cobb Center Drive Kennesaw, GA 30152 Product Information: 800-TECH-401 (Chemtrec) 800-424-9300 Emergency: Customer Service: 800-645-5244 Revision Date: February 10, 2007 **Product Identification ULTRAJET® & ULTRAJET® ALL-WAY** (Formerly Ultrajet® 2000) Product Code: ES520, ES1020, ES1620, ES520C, ES1020C, ES1620C, ES1620E SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS Chemical Name CAS# Wt. % Range Tetrafluoroethane 811-97-2 100% SECTION 3: HAZARDS IDENTIFICATION Emergency Overview: Clear, colorless liquefied gas. This product is nonflammable. Exposure to liquid may cause frostbite. Eyes: Contact with liquid is irritating and may cause frostbite. Contact causes frostbite; prolonged contact can cause skin irritation. Skin: Ingestion: Unlikely due to volatile nature of product. Contact with liquid may cause frostbite to mouth and throat tissues. 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. Pre-Existing Medical Conditions Aggravated by Exposure: Heart, lung, skin, eye, SECTION 4: FIRST AID MEASURES Treat for possible frostbite, then flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Eves: Have eyes examined and tested by medical personnel if irritation develops or persists. Treat for possible frostbite, then wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persist. Skin: Wash clothing separately before reuse. Ingestion: Treat for possible frostbite. Swallowing less than an ounce will not cause significant harm. For larger amounts, do not induce vomiting. Get immediate medical attention. Inhalation: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention. SECTION 5: FIRE FIGHTING MEASURES Flash Point: None to boiling (TCC) LEL/UEL: Nonflammable Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material. Fire Fighting Instructions: As in any fire, wear self-contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear. SECTION 6: ACCIDENTAL RELEASE MEASURES Large Spills: Shut off leak if possible and safe to do so. Wear self-contained breathing apparatus and appropriate personal protective equipment. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. Do not flush to sewer. Avoid runoff into storm sewers and ditches which lead to waterways. Small Spills: Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container for proper disposal. SECTION 7: HANDLING AND STORAGE Avoid prolonged or repeated contact with eves, 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 in use. Do not store in direct sunlight. KEEP OUT OF REACH OF CHILDREN. SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION OTHER Exposure Guidelines: CHEMICAL NAME ACGIH TLV **OSHA PEL** (DUPONT) AEL Tetrafluoroethane NA 1,000 ppm NA AEL = Acceptable Exposure Limit Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. Local exhaust ventilation may be necessary to control any air contaminants to within their TLVs during the use of this product. If vapor concentration exceeds TLV, use NIOSH approved organic vapor cartridge respirator. Wear safety glasses with side shields (or goggles) and rubber or other chemically resistant gloves when handling this material. NFPA NFPA and HMIS Codes: HMIS Health 1 1 Flammability 0 0 Reactivity 1 1 Personal Protection В SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES Solubility in Water: 67mg/1 @ 77F Physical State: Clear, colorless liquefied gas Odor: Slight ethereal odor Specific Gravity: (Water =1) 1.21 <u>pH:</u> NA Evaporation Rate: >1 Vapor Pressure: 4730 mmHg @ 77°F (Butyl acetate=1) Boiling Point: -15.7F (-27C) Vapor Density: 3.18 @ 77F (Air = 1) Percent Volatile: 100%

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Mutagenic effects: none

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SECTION 10: STABILITY AND REACTIVITY

Stability - This product is stable. Conditions to Avoid: Do not spray near open flames, red hot surfaces or other sources of ignition.

Incompatibility: Do not mix with powdered alkali and alkaline earth metals or strong oxidizing agents. Products of Decomposition: Thermal decomposition may release hydrofluoric acid vapor.

Hazardous Polymerization: Will not occur

Conditions to Avoid: NA

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: Tetrafluoroethane Rats ALC 567,000ppm/4hrs

Information from Dupont.

Cancer Information: No ingredients listed as human carcinogens by NTP or IARC Reproductive effects: none Teratogenic effects: none

SECTION 12: ECOLOGICAL INFORMATION

Environmental Impact Information

Avoid runoff into storm sewers and ditches which lead to waterways. Water runoff can cause environmental damage.

REPORTING

US regulations require reporting spills of this material that could reach any surface waters. The toll free number for the US Coast Guard National Response Center is:1-800-424-8802

SECTION 13: DISPOSAL CONSIDERATIONS Dispose of in accordance with all federal, state and local regulations. Water runoff can cause environmental damage.								
SECTIO	N 14: TRANSPORTATION INF Proper Shipping Name	ORMATION UN Number	Hazard Class	Sub. Risk	Pkg. Group	Hazard Label	Pkg. Instr.	Max. Quantity
<u>Air:</u>	1,1,1,2-Tetrafluoroethane	UN 3159	2.2	NA	NA	Nonflammable Gas	200	75kg;150kg
Ground:	Consumer Commodity ORM-D	NA	ORM-D	NA	NA	ORM-D	173.306 DOT-E-10232	

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

This product contains no toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

This information should be included on all MSDSs copied and distributed for this material.

TOXIC SUBSTANCES CONTROL ACT (TSCA).

All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class A; Class D2B

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

SECTION 16: OTHER INFORMATION

Product is a Level 1 aerosol. Do not puncture or incinerate containers. Normal ventilation for standard manufacturing practices is usually adequate. Local exhaust should be used when large amounts are released.

To the best of our knowledge, the information contained herein is accurate. However, all materials may present unknown hazards and should be used with caution. In particular, improper use of our products and their inappropriate combination with other products and substances may produce harmful results which cannot be anticipated. Final determination of the suitability of any material is the sole responsibility of the user. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that may exist.