ITW CHEMTRONICS® MSDS #0310L

## SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Address: 8125 Cobb Center Drive Kennesaw, GA 30152

> Product Information: 800-TECH-401 Emergency: (Chemtrec) 800-424-9300

Customer Service: 800-645-5244 Revision Date: February 10, 2007

### **Product Identification**

### FLUX-OFF® HEAVY DUTY (Liquid)

# Product Code: ES131, ES531, ES531, ES831L

### SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS#	Wt. % Range
Fluorinated Hydrocarbon(HFE)	163702-07-6/163702-08-7	30.0-60.0
trans-1,2-Dichloroethylene	156-60-5	30.0-60.0
Ethanol	64-17-5	1.0-5.0

### SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Clear, colorless liquid with faint ethereal odor. This product is nonflammable. Liquid may irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product vapor may produce dizziness and nausea.

### Potential Health Effects:

Liquid, aerosols and vapors of this product may be irritating and can cause pain, tearing, reddening and swelling accompanied by a stinging sensation. Eyes:

Prolonged contact can cause skin irritation, including redness, burning, drying and/or cracking of skin... Skin:

Ingestion: May be harmful if swallowed. Swallowing this material may result in nausea, vomiting and weakness followed by central nervous system depression.

Inhalation: Can be harmful if inhaled. High concentrations of vapors in immediate area can cause dizziness, nausea, vomiting, unconsciousness and death.

### SECTION 4: FIRST AID MEASURES

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined Eyes: and tested by medical personnel if irritation develops or persists.

Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persist. Wash clothing before reuse.

Ingestion: If swallowed, do not induce vomiting. If conscious, give 2 glasses of water. Never give anything by mouth to an unconscious person. Keep head below knees to minimize chance of aspirating material into the lungs. Get medical attention immediately.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Get medical attention.

# SECTION 5: FIRE FIGHTING MEASURES

Flash Point: None to boiling(TCC)

Extinguishing Media: Use water spray or fog, CO2, dry chemical or water stream 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

Spills: Shut off leak if possible and safe to do so. 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.

### **SECTION 7: HANDLING AND STORAGE**

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 in use. Do not store in direct sunlight.

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## KEEP OUT OF REACH OF CHILDREN.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Gu	iidelines:
CHEMICA	LNAME

Personal Protection

CHEMICAL NAME	Acom ILV	OSHATEL	OTHER
Fluorinated Hydrocarbon(HFE)	NE	NE	750 ppm (3M)
trans-1,2-Dichloroethylene	200 ppm	200 ppm	
Ethanol	1,000 ppm	1,000 ppm	
NE = Not Established			
NFPA and HMIS Codes:	NFPA	HM	IIS
Health	1		1
Flammability	1		1
Reactivity	1		1

Work/Hygienic Practices: Good general ventilation should be sufficient to control airborne levels. 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.

# SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, colorless liquid Solubility in Water: Negligible Odor: Ethereal Odor Specific Gravity: 1.32 pH: NA (Water = 1)Vapor Pressure: 450mmHg@ 70F Evaporation Rate: >1

Boiling Point: 106°F (Butyl acetate=1) Percent Volatile: 100%

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### SECTION 10: STABILITY AND REACTIVITY

Stability - This product is stable.

Conditions to Avoid: Steam, oxidizers, elevated temperatures. Do not spray near open flames, red hot surfaces or other sources of ignition.

Incompatibility: Do not mix with alkali metals, pure oxygen, strong base, open flames, and welding arcs.

<u>Products of Decomposition:</u> Thermal decomposition may release hydrogen chloride, hydrogen fluoride, perfluoroisobutylene and small amounts of phosgene and chlorine. Solvent decomposition occurs when catalyzed by metal chlorides which can be produced by reaction of HCl and metals in the system. In the presence of aluminum and excessive water, the decomposition can proceed rapidly with production of large amounts of heat and HCl fumes.

Hazardous Polymerization: Will not occur

Conditions to Avoid: Finely divided active metals, alkali and alkaline earth metals

## SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: Ingestion: LD50 rats Fluorinated Hydrocarbon (HFE) > 100 000 ppm (4hr)\* Fluorinated Hydrocarbon (HFE) LD50/rats > 5000 mg/kg\* 24,100 ppm (4hr)\* trans-1,2-Dichloroethylene LC50 rats trans-1,2-Dichloroethylene LD50/rats > 5000 mg/kg\*Ethanol LC50 rats 20,000ppm/10hr Ethanol LD50 rat 7060mg/kg

<u>Skin</u> <u>Eye:</u>

Fluorinated Hydrocarbon (HFE) 500 mg/rats MLD\* Fluorinated Hydrocarbon (HFE) 150 mg/rats/24H MLD\* trans-1,2-Dichloroethylene LD50 rabbit >5,000 mg/kg trans-1,2-Dichloroethylene MOD-SEV\*

Ethanol rabbit 400 mg open MLD Ethanol rabbit 500 mg SEV

\*Information provided by manufacturer.

Cancer Information: No ingredients in this product are listed as human carcinogens by IARC or NTP.

Reproductive effects: none Teratogenic effects: none Mutagenic 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.

# SECTION 14: TRANSPORTATION INFORMATION

Proper

Shipping Name

Air and Ground: Cleaning Compound, NOI, Not Regulated

### SECTION 15: REGULATORY INFORMATION

# SECTION 313 SUPPLIER NOTIFICATION

This product contains no 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 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**

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.