ITW CHEMTRONICS MSDS #1697

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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 17, 2010

Product Identification

FLUX-OFF® LEAD-FREE

Product Code:	ES1697	ES897	/R

Troduct Code: E51077, E5077B					
SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS					
Chemical Name	CAS No.	Wt. % Range			
Isohexane, a mixture of:					
2-methylpentane	107-83-5	10.0-25.0			
3-methylpentane	96-14-0	1.0-20.0			
2,3-Dimethylbutane	79-29-8	1.0-20.0			
2,2-Dimethylbutane	75-83-2	1.0-20.0			
n-hexane	110-54-3	0.1-2.0			
Acetone	67-64-1	20.0-50.0			
Carbon dioxide	124-38-9	1.0-10.0			
Methanol	67-56-1	1.0-2.0			

SECTION 3: HAZARD IDENTIFICATION

Emergency Overview: Clear, colorless liquid with mild hydrocarbon solvent. This product is extremely flammable. Liquid may irritate eyes and skin under repeated or prolonged exposure. Breathing high concentrations of product may produce drowsiness and a headache. Potential Health Effects:

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

Ingestion: Harmful if swallowed. Irritating to the mouth, throat and stomach. May cause vomiting. Inhalation: Harmful if inhaled. High concentrations in immediate area can displace oxygen and 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

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.

Skin: Wash skin with soap and water. Remove contaminated clothing. Get medical attention if irritation develops or persists. Wash clothing separately before reuse. Ingestion: If swallowed, do not induce vomiting. Keep head below knees to minimize chance of aspirating material into the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

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: -20 F (-29C) (isohexane) LEL/UEL: 1.2/7.7 (% by volume in air)

Extinguishing Media: Use alcohol foam, carbon dioxide or water spray when fighting fires involving this material. Fire Fighting Instructions: As in any fire, wear selfcontained 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 (i.e. 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 that lead to waterways. Small Spills: Absorb spill with inert material (i.e. 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 skin, eyes or clothing. Wash hands before eating. Use with adequate ventilation. Avoid breathing product vapor. Do not reuse this container. Store in a cool dry place, away from heat, sparks or flames. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:			
CHEMICAL NAME	ACGIH TLV	OSHA PEL	ACGIH STEL
2-methylpentane	500 ppm	NA	1000 ppm
3-methylpentane	500 ppm	NA	1000 ppm
2,3-Dimethylbutane	500 ppm	NA	1000 ppm
2,2-Dimethylbutane	500 ppm	NA	1000 ppm
n-hexane	50 ppm	500 ppm	NA
Acetone	500 ppm	1000 ppm	750 ppm
Methanol	200 ppm	200 ppm	

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.

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NFPA and HMIS Codes:	NFPA	HMIS
Health	1	1
Flammability	3	3
Reactivity	1	1
Personal Protection	-	В

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State:Clear, colorless liquidSolubility in Water:NegligibleOdor:Mild hydrocarbon solventSpecific Gravity:0.71 @ 68F

pH: NA Evaporation Rate: >1 (Butyl acetate=1)

 Vapor Pressure:
 214 mm Hg @ 68 F (liquid)
 Percent Volatile:
 100

 Vapor Density:
 3 (isohexanes)
 (Air 1)
 Boiling Point:
 122 F (50C)

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 powdered alkali and alkaline earth metals or strong oxidizing agents.

Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons.

Hazardous Polymerization: Will not occur. Conditions to avoid: NA

SECTION 11: TOXICOLOGICAL INFORMATION

 Inhalation:
 Ingestion:

 acetone
 LC50 rats
 50,100 mg/m3/8hr
 acetone

acetone LC50 rats 50,100 mg/m3/8hr acetone LD50 5800 mg/kg methanol LC50 rats 64,000ppm/4hr methanol LD50 rats 5,628 mg/kg

Skin: Eyes: acetone Rabbit MLD acetone

methanol 20mg/24 hr MLD methanol 40 mg/rabbit MOD Cancer Information: No ingredients listed as human carcinogens by NTP or IARC

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

20 mg/rabbit

SEV

SECTION 13: DISPOSAL CONSIDERATIONS

Dispose of in accordance with all federal, state and local regulations.

SECTION 14: TRANSPORTATION INFORMATION								
	Proper			Sub.	Pkg.	Hazard	Pkg.	Max.
	Shipping Name	UN Number	Class	Risk	Group	Label	Instr.	Quantity
Air:	Aerosols Flammable	UN 1950	2.1	NA	NA	Flammable	203/	75/
						Gas	Y203	30 kg
Ground:	Consumer Commodity ORM-D	NA	NA	NA NA	ORM-D	Pkg. Auth.	173.306	

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

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 of 1986 (40CFR372). This information should be included on all MSDSs copied and distributed for this material.

 Chemical Name
 CAS No.
 Wt. % Range

 n-hexane
 110-54-3
 0.1-2.0

methanol 67-56-1 1.0-2.0

TOXIC SUBSTANCES CONTROL ACT (TSCA). All ingredients of this product are listed on the TSCA Inventory.

WHMIS: Class A; Class B5; 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 3 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.