MSDS #1611L

ITW CHEMTRONICS

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Address: 8125 Cobb Center Drive

Kennesaw, GA 30152

Pi	oduct 1	Information:	800-TECH-401
C	ustome	r Service:	800-645-5244

Emergency: Revision Date:

(Chemtrec) 800-424-9300 February 10, 2007

Product Identification

New & Improved ElectroWash® NX Liquid

Product Code: ES111, ES5511						
SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS						
Chemical Name	CAS#	Wt. % Range				
Pentafluorobutane	406-58-6	0.0-40.0				
HCFC-225ca	422-56-0	5.0-45.0				
HCFC-225cb	507-55-1	5.0-45.0				
Trans-1,2-dichloroethylene	156-60-5	20.0-60.0				

SECTION 3: HAZARD IDENTIFICATION

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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 Eves: 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. Skin:

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. KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION **Exposure Guidelines:** ACGIH TLV OTHER CHEMICAL NAME OSHA PEL Pentafluorobutane not established not established HCFC-225 ca not established not established 50 ppm* HCFC-225 cb not established not established 400 ppm* trans-1,2-Dichloroethylene 200 ppm 200 ppm * Supplier's Occupational Exposure Limit 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. NFPA and HMIS Codes: NFPA HMIS Health 1 Flammability 1 1 Reactivity 1 1 Personal Protection B

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ITW CHEMTRONICS			MSDS #1611L				
SECTION 9: PHYSICAL AND	CHEMICAL PROPERTIES						
Physical State: Clear, colorless lie	quid	Solubility in Water: Negl	igible				
Odor: Ethereal Odor		Specific Gravity: 1.37					
<u>pH:</u> NA	_		(Water =1)				
Vapor Pressure: 209 mmHg @ 68	F	Evaporation Rate: >1 (Bu	ityl acetate=1)				
Boiling Point: 99°F (37C)		Percent Volatile: 100%					
SECTION 10: STABILITY AN	D REACTIVITY						
<u>Stability</u> - This product is stable.	izers, elevated temperatures. Do not spray near	open flames, red hot surfaces or ot	ther sources of ignition				
			luct should not be used in long term contact with				
aluminum or zinc or their alloys.	arkan metais, pure oxygen, strong base, open i	fames, and weiding ares. This prod	net should not be used in long term contact with				
	mal decomposition may release carbon monox	ide, carbon dioxide and incomplete	ely burned hydrocarbons as well as hydrochloric and				
hydrofluoric acid vapor.	i i i i i i i i i i i i i i i i i i i	I. I					
Hazardous Polymerization: Will n	ot occur						
Conditions to Avoid: Finely divid	ed active metals, alkali and alkaline earth meta	ıls					
SECTION 11: TOXICOLOGIC	CAL INFORMATION						
Inhalation:		Ingestion:					
AK225ca / AK225cb	LC50 rat 37,300 ppm/36,800 ppm (4hr)*	AK225ca / AK225cb	LD50/rat >5000 mg/kg*				
trans-1,2-Dichloroethylene	LC50 rat 24,100 ppm (4hr)*	trans-1,2-Dichloroethylene	LD50/rat >5,000 mg/kg*				
Pentafluorobutane	LC50 rat >10% / 4hr*	Pentafluorobutane	LD50 rat >2,000 mg/kg*				
Slrin		Eve					
<u>Skin</u> AK225ca / AK225cb	LD50rabbit >2,000 mg/kg*	<u>Eye:</u> AK225ca / AK225cb	Not an irritant*				
trans-1,2-Dichloroethylene	LD50rabbit >2,000 mg/kg*	trans-1,2-Dichloroethylene	MOD-SEV*				
Pentafluorobutane	rabbit not an irritant*	Pentafluorobutane	rabbit SL*				
*Information provided by manufac							
	ts in this product are listed as human carcinog	ens by IARC or NTP.					
Reproductive effects: none	Teratogenic effec	ts: none	Mutagenic effects: none				
SECTION 12: ECOLOGICAL	INFORMATION						
Avoid runoff into storm sewers and	d ditches which lead to waterways. Water run	off can cause environmental damag	e.				
REPORTING							
	pills of this material that could reach any surfa						
The toll free number for the US Co	bast Guard National Response Center is: 1-800	-424-8802					
SECTION 13: DISPOSAL CON							
Dispose of in accordance with all	federal, state and local regulations. Water run	off can cause environmental damag	re.				
SECTION 14: TRANSPORTAT	TION INFORMATION						
	Proper Shipping Name						
Air and Ground: Cleaning Compo	ound Not Regulated						
SECTION 15: REGULATORY	INFORMATION						
SECTION 313 SUPPLIER NOTIF							
1	g chemicals subject to the reporting requirement	ents of Section 313 of the Emergen	cy Planning and Community Right-To-Know Act of				
1986 (40 CFR 372).							
Chemical Name		AS No.	Wt. % Range				
HCFC-225ca		22-56-0	5.0-45.0				
	HCFC-225cb 507-55-1 5.0-45.0 This information should be included on all MSDSs copied and distributed for this material.						
TOXIC SUBSTANCES CONTRO	1	s material.					
All ingredients of this product are							
WHMIS: Class D2B							
	ccording to the hazard criteria of the CPR and t	the MSDS contains all of the inform	nation required by the CPR.				
SECTION 16: OTHER INFOR			* *				
	anufacturing practices is usually adequate. Lo	cal exhaust should be used when la	rge amounts are released				

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.