# SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**Company Address:** 8125 Cobb Center Drive Kennesaw, GA 30152

Product Information:	800-TECH-401
Customer Service:	800-645-5244

Emergency: Revision Date: (Chemtrec) 800-424-9300 February 17, 2010

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**Product Identification** 

Pow-R-Wash® PN							
Product Code: ES1677							
SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS							
Chemical Name	CAS#	Wt. % Range					
Pentafluorobutane	406-58-6	20.0-50.0					
HCFC-225ca	422-56-0	10.0-20.0					
HCFC-225cb	507-55-1	10.0-20.0					
Perfluorocarbons	86508-42-1	10.0-20.0					
Trans-1,2-dichloroethylene	156-60-5	10.0-20.0					
Isohexanes	8030-30-6	1.0-5.0					
1,1,1,2-Tetrafluoroethane	811-97-2	5.0-30.0					
Carbon Dioxide	124-38-9	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:

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

Eyes: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Have eyes examined 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 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

<u>Spills:</u> 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. Do not store in direct sunlight.

## KEEP OUT OF REACH OF CHILDREN.

Personal Protection

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION							
Exposure Guidelines:							
CHEMICAL NAME		ACGIH TLV	OSHA PEL	OTHER			
HCFC-225ca		not established not established		100 ppm*			
HCFC-225cb		not established	not established	100 ppm*			
Pentafluorobutane		not established	not established				
Perfluorocarbons		not established not established					
trans-1,2-Dichloroethylene		200 ppm	200 ppm				
1,1,1,2-Tetrafluoroethane		not established not established 1		1000 ppm*			
Isohexanes		500 ppm not established		1000 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	1				
Flammability		0	0 0				
Reactivity		1	1				

	®								
ITW CHE	EMTRONICS						MSDS #1	677	
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES									
Physical State: Clear, colorless liquid			Solubility in W	Vater: Negligible					
Odor: Eth	ereal Odor			Specific Gravi	<u>ty:</u> 1.35				
<u>pH:</u> NA				(Water =1)					
	ssure: 294 mm Hg @ 68 l	F			ate: >1 (Butyl aceta	te=1)			
Boiling Po	<u>oint:</u> 99°F (37C)			Percent Volati	<u>le:</u> 100%				
SECTION	N 10: STABILITY AND	REACTIVITY							
	This product is stable.								
	s to Avoid: Steam, oxidiz								
	bility: Do not mix with al	kali metals, pure oxygen,	strong base, open fl	ames, and welding arcs	<ol> <li>This product shou</li> </ol>	ld not be used in lo	ong term conta	act with	
	or zinc or their alloys.		· · · · · · · · · · · · · · · · · · ·		·····	d haadaa aa da ama aa		-1-1	
	of Decomposition: Therm ric acid vapor.	al decomposition may rel	ease carbon monoxi	ide, carbon dioxide and	incompletely burne	a nydrocardons as	well as hydro	chioric and	
	Polymerization: Will no	t occur							
	s to Avoid: Finely divided		alkaline earth meta	ls					
	N 11: TOXICOLOGICA								
Inhalation		LINFORMATION		Ingestion:					
	/ AK225cb	LC50 rat 37,300 ppm//	36 800 ppm (4hr)*	AK225ca / AK225cb	LD	50/rat >5000 mg/	ko*		
	Dichloroethylene	LC50 rat 24,100 ppm (		trans-1,2-Dichloroet		50/rat > 5,000  mg/			
Tetrafluor		Rat ALC 567,000ppm		Pentafluorobutane		50 rat >2,000 mg/			
Pentafluor	obutane	LC50 rat >10% / 4hr	k			-	-		
Skin				Eye:					
	/ AK225cb	LD50rabbit >2,0	000 mg/kg*	AK225ca / AK225cl	h No	t an irritant*			
	Dichloroethylene		000 mg/kg*	trans-1,2-Dichloroet		D-SEV*			
Pentafluor			ot an irritant*	Pentafluorobutane	2	bit SL*			
*Informati	ion provided by manufactu	urer.							
Cancer Inf	formation: No ingredients	in this product are listed							
Reproduct	ive effects: none		Teratogenic effect	ts: none	1	Mutagenic effects:	none		
SECTION	N 12: ECOLOGICAL IN	FORMATION							
Avoid run	off into storm sewers and	ditches which lead to way	terways. Water runc	off can cause environme	ental damage.				
REPORT									
	tions require reporting spi								
The toll from	ee number for the US Coa	st Guard National Respor	se Center is: 1-800-	-424-8802					
	N 13: DISPOSAL CONS								
Dispose of	f in accordance with all fe	ederal, state and local regu	lations. Water rund	off can cause environme	ental damage.				
SECTION	N 14: TRANSPORTATI	ON INFORMATION							
	Proper		Su	8	Hazard	Pkg.	Max.		
	Shipping Name	UN Number	Class Ri		Label	Instr.	Quantity		
<u>Air:</u>	Aerosols non-flammable	UN 1950	2.2 NA		Non-flammable	203	75 k.g; 15	U	
Ground:	Consumer Commodity		NA	ORM-D NA	NA	ORM-D	Pkg.	173.306	
	ORM-D					Auth.			
	N 15: REGULATORY I								
	313 SUPPLIER NOTIFI								
-	act contains the following	chemicals subject to the	reporting requireme	ents of Section 313 of th	he Emergency Planr	ing and Communi	ty Right-To-K	know Act of	
1986 (40 C Chemical	· · · · · · · · · · · · · · · · · · ·		C	AS No.	,	Wt. % Range			
				2-56-0		10.0-20.0			
		7-55-1 10.0-20.0							
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									
This 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 bes	st of our knowledge, the in	formation contained here	in is accurate How	vever all materials may	v present unknown l	nazards and should	he used with	caution In	

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.