MSDS #1677

ITW CHEMTRONICS

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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 17, 2010
Product Identification				
		Pow-R-Wash	h® PN	

Product Code: ES1677			
SECTION 2: COMPOSITION/INFORMATION O	N 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:

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 eves 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. 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. Do not store in direct sunlight.

KEEP OUT OF REACH OF CHILDREN.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTEC	TION		
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	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 Reactivity 1 1 Personal Protection в

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FW CHEMTRONICS						MSDS #1677
ECTION 9: PHYSICAL AND	CHEMICAL PROPERTI	ES				
nysical State: Clear, colorless liq	luid		Solubility in W	ater: Negligible		
dor: Ethereal Odor			Specific Gravity	<u>y:</u> 1.35		
I: NA			(Water =1)			
por Pressure: 294 mm Hg @ 68	F		Evaporation Ra	te: >1 (Butyl aceta	ate=1)	
piling Point: 99°F (37C)			Percent Volatile		,	
ECTION 10: STABILITY ANI) REACTIVITY					
ability - This product is stable.						
onditions to Avoid: Steam, oxidiz	zers elevated temperatures	Do not spray near	open flames red hot sur	rfaces or other sour	res of ignition	
<u>compatibility:</u> Do not mix with a						ong term contact with
uminum or zinc or their alloys.	ikun metuis, pure oxygen, s	strong buse, open n	ames, and welding ares.	This product shot	and not be used in it	ing term contact with
roducts of Decomposition: Therr	mal decomposition may rele	asa carbon monovi	de carbon diovide and i	incompletely burne	d hydrocarbons as	well as hydrochloric (
	nar decomposition may rele		ue, carbon utoxide and	incompletely burne	a nyulocarbons as	well as hydroenione a
ydrofluoric acid vapor.						
azardous Polymerization: Will no		11 12 41 41				
onditions to Avoid: Finely divide		alkaline earth metal	S			
ECTION 11: TOXICOLOGIC	AL INFORMATION					
halation:			Ingestion:			
K225ca / AK225cb	LC50 rat 37,300 ppm/3		AK225ca / AK225cb		050/rat >5000 mg/	
ans-1,2-Dichloroethylene	LC50 rat 24,100 ppm (4		trans-1,2-Dichloroeth		050/rat >5,000 mg/	
etrafluoroethane	Rat ALC 567,000ppm/	/4hrs*	Pentafluorobutane	LD	050 rat >2,000 mg/	kg*
entafluorobutane	LC50 rat >10% / 4hr*					
<u>kin</u>			Eye:			
K225ca / AK225cb	LD50rabbit >2,00	00 mg/kg*	AK225ca / AK225cb	No	t an irritant*	
ans-1,2-Dichloroethylene	LD50rabbit >5,0	00 mg/kg*	trans-1,2-Dichloroeth	nylene MC	DD-SEV*	
entafluorobutane				•		
	rabbit not	t an irritant*	Pentafluorobutane	rab	bit SL*	
		t an irritant*	Pentafluorobutane	rab	bit SL*	
Information provided by manufact	turer.			rab	bit SL*	
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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.