CHEMTRONICS MSDS #1677

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: December 7, 2004

Product Identification

New & Improved Pow-R-Wash® PN

| Product Code: ES1677 | | | | | | | |
|---|-----------|-------------|--|--|--|--|--|
| SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS | | | | | | | |
| Chemical Name | CAS# | Wt. % Range | | | | | |
| HCFC-225ca | 422-56-0 | 20.0-50.0 | | | | | |
| HCFC-225cb | 507-55-1 | 20.0-50.0 | | | | | |
| Pentafluorobutane | 406-58-6 | 0.0-50.0 | | | | | |
| Trans-1,2-dichloroethylene | 156-60-5 | 0.0-10.0 | | | | | |
| Isohexanes | 8030-30-6 | 1.0-5.0 | | | | | |
| Ethanol | 64-17-5 | 1.0-3.0 | | | | | |
| 1,1,1,2-Tetrafluoroethane | 811-97-2 | 10.0-30.0 | | | | | |
| Carbon Dioxide | 124-38-9 | 1.0-10.0 | | | | | |

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..

<u>Ingestion</u>: 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.

<u>Ingestion:</u> 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.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

| Evnocura | Guidelines: |
|----------|-------------|
| | |

| CHEMICAL NAME | ACGIH TLV | OSHA PEL | OTHER |
|----------------------------|-----------------|-----------------|-----------|
| HCFC-225 ca/HCFC-225 cb | not established | not established | 100 ppm* |
| Pentafluorobutane | not established | not established | |
| trans-1,2-Dichloroethylene | 200 ppm | 200 ppm | |
| Ethanol | 1000 ppm | 1000 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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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Clear, colorless liquid Solubility in Water: Negligible Odor: Ethereal Odor Specific Gravity: 1.347

pH: NA

Vapor Pressure: 294 mm Hg @ 68 F Evaporation Rate: >1 (Butyl acetate=1)

Boiling Point: 99°F Percent Volatile: 100%

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. This product should not be used in long term contact with aluminum or zinc or their alloys.

(Water = 1)

Products of Decomposition: Thermal decomposition may release carbon monoxide, carbon dioxide and incompletely burned hydrocarbons as well as hydrochloric and hydrofluoric acid vapor.

<u>Hazardous Polymerization:</u> Will not occur

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

SECTION 11: TOXICOLOGICAL INFORMATION

Inhalation: Ingestion:

AK225ca / AK225cb LC50 rat 37,300 ppm/36,800 ppm (4hr)* AK225ca / AK225cb LD50/rat >5000 mg/kg* LC50 rat 24,100 ppm (4hr)* trans-1,2-Dichloroethylene trans-1,2-Dichloroethylene LD50/rat >5,000 mg/kg* Ethanol LC50 rats 20,000 ppm/10 hr Ethanol LD50 rats 7060 mg/kg Rat ALC 567,000ppm/4hrs* Tetrafluoroethane Pentafluorobutane LD50 rat >2,000 mg/kg*

LC50 rat >10% / 4hr* Pentafluorobutane

Skin Eye:

AK225ca / AK225cb LD50rabbit >2,000 mg/kg* AK225ca / AK225cb Not an irritant* MOD-SEV* trans-1,2-Dichloroethylene LD50rabbit >5,000 mg/kg* trans-1,2-Dichloroethylene Ethanol rabbit 400 mg open MLD Ethanol rabbit 500 mg SEV Pentafluorobutane not an irritant* Pentafluorobutane rabbit SL* rabbit

*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

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 | | | Sub. | Pkg. | Hazard | Pkg. | Max. |
|---------|------------------------|-----------|-------|------|-------|---------------|--------|-----------------|
| | Shipping Name | UN Number | Class | Risk | Group | Label | Instr. | Quantity |
| Air: | Aerosols non-flammable | UN 1950 | 2.2 | NA | NA. | Non-flammable | 203 | 75 k.g; 150k.g. |
| Ground: | Consumer Commodity | NA | ORM-D | NA | NA | ORM-D | Pkg. | 173.306 |
| | ORM-D | | | | | | Auth. | |

SECTION 15: REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

This product contains the following chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 (40 CFR 372).

Chemical Name CAS No. Wt. % Range HCFC-225ca 422-56-0 10.0-20.0 HCFC-225cb 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 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.