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ITW CHEMTRONICS

MSDS #1614L

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**Company Address:**8125 Cobb Center Drive
Kennesaw, GA 30152Product Information: 800-TECH-401
Customer Service: 800-645-5244Emergency: (Chemtrec) 800-424-9300
Revision Date: February 10, 2007**Product Identification****New & Improved Electro-Wash® NR Liquid**

Product Code: ES114 , ES5514

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS# | Wt. % Range |
|------------------|----------|-------------|
| n-propyl bromide | 106-94-5 | 97.0-99.0 |
| t-Butanol | 75-65-0 | 0.1-2.0 |
| 1,2 Epoxybutane | 106-88-7 | <1.0 |

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 persists. 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)

Flammable/Explosion limits: LEL 4.0 / UEL 8.0 (% volume in air)

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:**

| CHEMICAL NAME | ACGIH TLV | OSHA PEL | OTHER |
|------------------|-----------|----------|--------------------|
| n-propyl bromide | 10 ppm | NE | |
| 1,2 Epoxybutane | NE | NE | |
| t-Butanol | 100 ppm | 100 ppm | 150 ppm STEL NIOSH |

NE = Not Established

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 | 2 | 2 |
| Flammability | 1 | 1 |
| Reactivity | 1 | 1 |
| Personal Protection | - | B |

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIESPhysical State: Clear, colorless liquidOdor: Characteristic OdorpH: NAVapor Pressure: 112 mmHg @ 68FBoiling Point: 156°FSolubility in Water: NegligibleSpecific Gravity: 1.35

(Water =1)

Evaporation Rate: >1 (Butyl acetate=1)Percent Volatile: 100%**SECTION 10: STABILITY AND REACTIVITY**Stability - This product is stable under normal conditions.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 strong oxidizers and strong bases.Products of Decomposition: Thermal decomposition may release hydrogen bromide, carbon monoxide and carbon dioxide.Hazardous Polymerization: Will not occurConditions to Avoid: Keep away from ignition source.**SECTION 11: TOXICOLOGICAL INFORMATION**Inhalation:n-propyl bromide LC50 rats 253 000 mg/m³/0.5hr*Reproductive effects: n-propyl bromide

NOEL rats 100 ppm

Ingestion:

n-propyl bromide LD50/rats 4260 mg/kg*

(Rozman and Doull, 2002)

LOEL rats 250 ppm

*Information provided by manufacturer.

Cancer Information: No ingredients in this product are listed as human carcinogens by IARC or NTP.

Reproductive effects: n-propyl bromideTeratogenic effects: noneMutagenic 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

Shipping Name

Air and Ground: Cleaning Compound – Not regulated**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**

1,2 Epoxybutane

106-88-7

<1.0

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.

CALIFORNIA PROPOSITION 65: This product contains n-propyl bromide, a chemical known to the state of California to cause birth defects or other reproductive harm.**WHMIS:** Class D2A; 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

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.