



# MATERIAL SAFETY DATA SHEET

## SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>Company Name</b> Nu-Calgon Wholesaler, Inc.	<b>Phone Number</b> (314) 469-7000 / (800) 554-5499	<b>CHEMTREC</b> (800) 424-9300		
<b>Street Address</b> 2008 Altom Court	<b>City</b> St. Louis	<b>State</b> MO	<b>Postal Code</b> 63146-4151	<b>Last Update</b> 02/28/2007
<b>Product Name</b> Cal-Shield	<b>Product Number</b> 4148	<b>Product Use</b> Coil Protector		<b>EPA Registration #</b> NA

## SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

<b>Hazardous Ingredients</b>	<b>% By Wt.</b>	<b>CAS Number</b>	<b>TLV</b>	<b>PEL</b>
Telomer B Phosohate Diethanolamine Salts	2-4%	65530-63-4 ; 65530-64-5 ; 65530-74-7	0.1-1 mg/m3 (TWA) based on similar materials by manufacturer (Dupont)	0.1-1 mg/m3 (TWA) based on similar materials by manufacturer (Dupont)
Isopropanol	1-3%	7732-18-5	200ppm (TWA - 8hrs)	400ppm (TWA-8hrs)
Water	85 -95%	7732-18-5	None Established	None Established

## SECTION 3 – HAZARD IDENTIFICATION

**Emergency Overview:** Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Avoid circumstances that produce respirable particles unless suitable ventilation and respirator are used. Use only with adequate ventilation and appropriate personal protection equipment. See section 16 of this MSDS.

### **Potential Health Effects**

**Eyes:** Prolonged or repeated contact with eyes may cause irritation.

**Skin:** Prolonged or repeated contact with skin may cause mild, transient irritation.

**Ingestion:** Ingestion may cause moderate gastrointestinal irritation, abdominal pain ab vomiting, diarrhea.

**Inhalation:** Inhalation of large amounts may cause irritation of nose, throat, or lung. Inhalation of respirable particles may be toxic to lungs. Symptoms may be slow developing but include, dizziness, CNS depression, as well as shortness of breath requiring prompt medical attention. Overexposure may be fatal.

**Chronic Exposure:** None currently known.

**Carcinogenicity:** None

**Medical Conditions Aggravated by Exposure:** Respiratory illnesses.

## SECTION 4 – FIRST AID MEASURES

**Eyes:** Flush eyes with water for at least 15 minutes and call a physician immediately.

**Skin:** Wash affected areas with large amounts of soap and water. If irritation persists call a physician.

**Ingestion:** Do NOT induce vomiting. Aspiration hazard. Dilute by drinking water. Call a physician immediately. Activated charcoal may be beneficial (Mix 50g in 400 ml H2O and administer 5ml/kg, or 350ml for an average adult.

**Inhalation:** Remove to fresh air. Start artificial respiration if necessary. Oxygen may be administered. Call a physician.

## SECTION 5 – FIREFIGHTING MEASURES

**Flash Point:** None to Boiling°F

**Autoignition Temp:** N/A°C/N/A°F

**Hazardous Products of Combustion:** Burning may produce oxides of carbon, hydrogen fluoride, toxic gases and other substances.

**Flammable Limits in Air:** N/A

**Extinguishing Media:** Product is non-combustible. Water Spray (Fog), Dry Chemical, CO2, or Foam may be used where product is stored.

**Fire and Explosion Hazards:** Burning may produce oxides of carbon, hydrogen fluoride, toxic gases and other substances.

**Special Firefighting Procedures:** Do not enter confined fire-spaces without protective clothing and self-contained air supply.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

**Spill or Leak:** Do not discharge into lakes, streams, ponds or public waters. Stop leak if you can do it without risk. Dike ahead of large spills. Mop, pump or take up with inert absorbent material and place into containers for disposal.

## SECTION 7 – HANDLING AND STORAGE

**Handling Procedures and Equipment:** Use only with adequate ventilation to control mists / respirable particles / vapors below exposure limits (see MSDS sect 16). Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Harmful if swallowed. D.O.T. Classification - not regulated

**Storage Requirements:** Keep container closed when not in use. Store in a well ventilated place. Do not reuse empty container - triple rinse and offer for reconditioning or proper disposal. If frozen, thaw and agitate before use.

## SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

**Respiratory Protection:** Where there is the potential for for airborne exposures wear NIOSH approved respiratory protection. Avoid breathing of any respiratable particles.

**Eye Protection:** Safety Glasses or Chemical Splash Goggles

**Protective Clothing:** Impervious protective clothing appropriate to minimize contact. Protective Gloves: Rubber/PVC

**Exposure Guidelines:** None Established

**Specific Engineering Controls (such as ventilation, enclosed process):** Insure adequate ventilation. Where there there is the potential for for airborne exposures wear NIOSH approved respiratory protection. Avoid breathing of any respiratable particles.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical Form:</b> Liquid	<b>Freezing Point:</b> 0°C/32°F	<b>% Volatile by Weight:</b> ~90+%
<b>Color:</b> Amber	<b>Vapor Density [air =1]:</b> Not Determined	<b>Evaporation Rate:</b> (vs. H2O): About the same.
<b>Odor:</b> Characteristic Odor	<b>Vapor Pressure:</b> Not Determined	<b>Specific Gravity:</b> (H20=1): 1.01 (+/-0.05)
<b>Boiling Point:</b> 100°C/212 (IBP)°F	<b>Solubility in Water:</b> Complete	<b>pH (concentrate):</b> 7.9 (+/-0.5)

## SECTION 10 – STABILITY AND REACTIVITY

**Chemical Stability:** Stable under normal conditions of use and storage.

**Hazardous Polymerization:** None

**Incompatibilities:** Oxidizing agents.

**Reactive Conditions to avoid:** Insure adequate ventilation. Where there there is the potential for for airborne exposures wear NIOSH approved respiratory protection. Avoid breathing of any respiratable particles.

**Decomposition Products:** Burning may produce oxides of carbon, hydrogen fluoride, toxic gases and other substances.

## SECTION 11 – TOXICOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>CAS #</b>	<b>EINECS #</b>	<b>LD 50 of Ingredient</b> (Specify Species)	<b>LC50 of Ingredient</b> (Specify Species)
Telomer B Phosohate Diethanolamine Salts	65530-63-4 ; 65530-64-5 ; 65530-74-7		LD50= NA	LC50 = NA
Isopropanol			LD50= 4700 mg/kg ( rat)	LC50 = 16,000ppm (4 hours) (rat)

## SECTION 12 – ECOLOGICAL INFORMATION

<b>Hazardous Ingredients</b>	<b>Aquatic Toxicity Data</b>
Telomer B Phosohate Diethanolamine Salts	LC50 = NA
Isopropanol	LC50=3,200 mg/l (96 hrs) Fathead Minnow

## SECTION 13 – DISPOSAL CONSIDERATIONS

**Waste Disposal:** Dispose of in an approved waste facility according to Federal, State and local regulations. See product label for specific instructions.

**SECTION 14 – TRANSPORTATION INFORMATION**

Special Shipping Information: No Data.

<u>Purview</u>	<u>Proper Shipping Name</u>	<u>UN Number</u>	<u>Packing Group</u>	<u>Hazard Class</u>
<b>DOT</b> (Land)	Not Regulated			
<b>IMO</b> (Water)	No Data.			
<b>ICAO</b> (Air)	No Data.			

**SECTION 15 – REGULATORY INFORMATION**

<b>WHMIS Classification:</b> (Workplace Hazardous Material Information System)	Class D - Division 2B - Eye Irritant
<b>SARA Title III:</b> (Superfund Amendments & Reauthorization Act)	Contains no Section 313 listed substances subject to reporting requirements.
<b>OSHA:</b> (Occupational Safety & Health Administration)	OSHA Hazardous - Acute hazard
<b>TSCA:</b> (Toxic Substance Control Act)	All ingredients are TSCA registered.
<b>VOC:</b> (volatile Organic Compounds)	No Data
<b>CPR:</b> (Canadian Controlled Products Regulations)	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations
<b>EINECS:</b> (European Inventory of Existing Commercial Chemical Substances)	No Data.
<b>DSL / NDSL:</b> (Canadian Domestic Substance List)(Non-Domestic Substance List)	All ingredients in this product are listed on the DSL.
<b>CERCLA:</b> (Comprehensive Response Compensation & Liability Act)	NA
<b>IDL:</b> (Canadian Ingredient Disclosure List)	No Data.
<b>NFPA (HMIS) Rating:</b> (Hazardous Materials Identification System)	Health = 2 Flammability = 0 Reactivity = 0 Special Hazard = X

**SECTION 16 – OTHER INFORMATION**

Air monitoring studies conducted at customer sites indicate that use of the recommended low pressure (<60psi) airless type, garden type or deck specific hand pump sprayer with a spray tip orifice of 0.031 inches in diameter does not produce respirable size aerosol particle concentrations near the TLV or PEL.

The information contained herein is based on the data available to us and is believed to be correct. However, Nu-Calgon Wholesaler Inc. makes no warranty, expressed, or implied, regarding the accuracy of this data or the results to be obtained from the use thereof. Nu-Calgon Wholesaler Inc. assumes no liability for injury from the use of the product described herein.