



MATERIAL SAFETY DATA SHEET

SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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

SECTION 2 – COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	% By Wt.	CAS Number	TLV	PEL
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 and 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 airborne exposures wear NIOSH approved respiratory protection. Avoid breathing of any respirable 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 is the potential for airborne exposures wear NIOSH approved respiratory protection. Avoid breathing of any respirable particles.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Physical Form: Liquid	Freezing Point: 0°C/32°F	% Volatile by Weight: ~90+%
Color: Amber	Vapor Density [air =1]: Not Determined	Evaporation Rate: (vs. H ₂ O): About the same.
Odor: Characteristic Odor	Vapor Pressure: Not Determined	Specific Gravity: (H ₂ O=1): 1.01 (+/-0.05)
Boiling Point: 100°C/212 (IBP)°F	Solubility in Water: Complete	pH (concentrate): 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 is the potential for airborne exposures wear NIOSH approved respiratory protection. Avoid breathing of any respirable particles.

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

SECTION 11 – TOXICOLOGICAL INFORMATION

Hazardous Ingredients	CAS #	EINECS #	LD 50 of Ingredient (Specify Species)	LC50 of Ingredient (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

Hazardous Ingredients	Aquatic Toxicity Data
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>
DOT (Land)	Not Regulated			
IMO (Water)	No Data.			
ICAO (Air)	No Data.			

SECTION 15 – REGULATORY INFORMATION

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