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**MATERIAL SAFETY DATA SHEET**  
**Cal-Shield**

**I - PRODUCT IDENTIFICATION**

Company Name: Nu-Calgon Wholesaler, Inc.  
Address: 2008 Altom Court, St. Louis, MO 63146-4151  
Product Name: Cal-Shield  
Synonyms: Teflon-based coil protectant

Tel No: (314) 469-7000, (800) 554-5499  
CHEMTREC: (800) 424-9300  
Product Number: 4148

**II - HAZARDOUS INGREDIENTS OF MIXTURES**

<u>MATERIAL</u>	<u>CAS#</u>	<u>% By Wt</u>	<u>TLV</u>	<u>PEL</u>
Telomer B Phosphate (DEA Salt, 1:1:2)	65530-63-4	1-10 %	N/A	N/A
Telomer B Phosphate (DEA Salt, 2:1:1)	65530-64-5	1-10 %	N/A	N/A
Telomer B Phosphate (DEA Salt, 1:1:1)	65530-74-7	1-5 %	N/A	N/A
Isopropyl alcohol	67-30-0	1-5 %	400 ppm*	400 ppm*

\*These PEL and TLV values are equivalent to 980 mg/cubic meter.  
All ingredients are TSCA listed.

**III - PHYSICAL DATA**

Vapor Pressure: N/A	Vapor Density (Air=1) 60-90° F: N/A
Evaporation Rate: N/A	VOC Content (% by wt.): N/A
Solubility in H <sub>2</sub> O: Partial	pH @ Solution: N/A
Freezing Point °F: 32°	pH as Distributed: 7.0
Boiling Point °F: 212°	Appearance: Clear liquid
Specific Gravity H <sub>2</sub> O=1 @25° C: 1.01	Odor: Alcohol

**IV - FIRE AND EXPLOSION**

Flash Point F: None to boiling Flammable Limits: Non-flammable  
Extinguishing Media: Use media appropriate for surrounding material  
Special Fire Fighting Procedures: None  
Unusual Fire and Explosion Hazards: None

**V - REACTIVITY DATA**

Stability - Conditions to avoid: Stable at normal temperatures and storage conditions  
Incompatibility: None  
Hazardous Decomposition Products: Decomposition will not occur  
Conditions Contributing to Hazardous Polymerizations: Polymerization will not occur

**VI - HEALTH HAZARD DATA**

**EFFECTS OF OVEREXPOSURE (Medical Conditions Aggravated/Target Organ Effects),**  
A. ACUTE (Primary Route of Exposure) SKIN: May cause skin irritation with discomfort or rash. There are rare inconclusive reports of human sensitization to isopropyl alcohol. EYES: May cause eye irritation with discomfort, tearing, or blurring of vision. INHALATION: May cause irritation of the upper respiratory passages, with coughing and discomfort. INGESTION: May cause gastrointestinal irritation with upper abdominal pain, vomiting, and diarrhea. However, there may be no symptoms at all. Inhalation, ingestion, or skin contact may cause nonspecific discomfort, such as nausea, headache, abdominal pain, flushing of the face, hypotension, or weakness.  
B. SUBCHRONIC, CHRONIC, OTHER: Higher exposures may lead to temporary nervous system depression with anaesthetic effects such as dizziness, headache, confusion, incoordination, and loss of consciousness.  
C. MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:

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## VII - EMERGENCY AND FIRST AID PROCEDURES

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**INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

**EYES:** In case of contact, immediately flush with plenty of water for at least 15 minutes. Call a physician.

**SKIN:** In case of contact, immediately wash skin with soap and water. Wash contaminated clothing before reuse.

**INGESTION:** If swallowed, do not induce vomiting. Immediately give 2 glasses of water. Never give anything by mouth to an unconscious person. Call a physician.

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## VIII - SPILL OR LEAK PROCEDURE

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**Spill Management: Safeguards (Personnel) NOTE:** Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up. Spill Clean Up: Soak up with sawdust, sand, oil dry or other absorbent material.

**Waste Disposal Methods:** Treatment, storage, transportation, and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

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## IX - PROTECTION INFORMATION/CONTROL MEASURES

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**Respiratory: OUTDOORS:**When applying outdoors, no respiratory protection is required. **INDOORS:** When applying indoors, respiratory protection is required if application takes place in a closed, sealed or non-ventilated area. Recommended respirator is NIOSH/MSHA carbon-type for organic vapor removal and particulate removal.

**Eye Protection: Goggles Glove: Rubber Gloves**

**Other Clothing and Equipment:** Where there is potential for skin contact have available, and wear as appropriate, impervious gloves, apron, pants, and jacket.

**Ventilation:** Apply with standard manual "pump-up" sprayer. Use with adequate ventilation, and follow above respiratory guidelines.

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## X - SPECIAL PRECAUTIONS

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**Precautions to be taken in Handling and Storing:** Avoid breathing vapors or mist. Avoid contact with eyes skin or clothing. Wash thoroughly after handling. Wash clothing after use.

**Additional Information:** Keep container tightly closed.

### NFPA

Health Hazard.....: 0

Fire Hazard.....: 0

Reactivity.....: 0

Specific Hazard....:

### HMIS RATING

Health Hazard.....: 0

Fire Hazard.....: 0

Reactivity.....: 0

Personal Protection...: X (Sec. 9)

**Revision Date: 03/21/2002**

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