

Safety Data Sheet

Issue Date: 29-Oct-2013 Revision Date: 31-Oct-2013 Version 1

1. IDENTIFICATION

Product Identifier

Product Name Cal-Shield

Other means of identification

Part Number 4148-01, 4148-08, 4148-32.

Recommended use of the chemical and restrictions on use

Recommended UseCoil protectant. For professional use only.

Details of the supplier of the safety data sheet

Supplier Address Nu-Calgon

2008 Altom Court St. Louis, MO 63146 www.nucalgon.com

Emergency Telephone Number

Company Phone Number (314) 469-7000 (800) 554-5499

Emergency Telephone (24 hr) Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Appearance Light straw liquid cloudy Physical State Liquid Odor None

Classification

This chemical does not meet the hazardous criteria set forth by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). However, this Safety Data Sheet (SDS) contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

3. COMPOSITION/INFORMATION ON INGREDIENTS

The product contains no substances which at their given concentration, are considered to be hazardous to health.

4. FIRST-AID MEASURES

First Aid Measures

Eye Contact IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if necessary.

Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Consult a physician if

necessary.

Inhalation Remove to fresh air. Get medical attention if necessary.

Ingestion IF SWALLOWED: rinse mouth. Get medical attention if necessary.

Most important symptoms and effects

Symptoms Direct contact with eyes may cause temporary irritation.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

None known.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal PrecautionsUse personal protective equipment as required.

Environmental Precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See

Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling Handle in accordance with good industrial hygiene and safety practice. Use personal

protection recommended in Section 8. Avoid contact with skin, eyes or clothing.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep container tightly closed and store in a cool, dry and well-ventilated place. Protect from

freezing. Keep out of the reach of children.

Incompatible Materials Oxidizing agents. Bleach. Do not mix with other chemicals or cleaners.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

This product, as supplied, does not contain any hazardous materials with occupational Exposure Guidelines

exposure limits established by the region specific regulatory bodies.

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Wear approved safety goggles where a splash hazard exists.

Skin and Body Protection Wear suitable protective clothing.

Respiratory Protection Ensure adequate ventilation, especially in confined areas.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State Liquid

Appearance Light straw liquid cloudy None Odor

Color Light straw **Odor Threshold** Not determined

Property Remarks • Method <u>Values</u>

Not determined

Not determined

pН 3.3-4.8

Melting Point/Freezing Point Not determined

Boiling Point/Boiling Range 100 °C / 212 °F **IBP** Flash Point None to boiling Tag Closed Cup

Evaporation Rate Equal to water Flammability (Solid, Gas) Liquid-not applicable **Upper Flammability Limits** Not determined **Lower Flammability Limit** Not determined **Vapor Pressure** Not determined

Specific Gravity 1.01

Water Solubility Soluble in water Solubility in other solvents Not determined **Partition Coefficient** Not determined **Auto-ignition Temperature** Not determined **Decomposition Temperature** Not determined **Kinematic Viscosity** Not determined **Dynamic Viscosity** Water thin (<5 cps) **Explosive Properties** Not determined **Oxidizing Properties**

Density 8.39 lb/gal

10. STABILITY AND REACTIVITY

Reactivity

Vapor Density

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Page 3/6

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Keep out of reach of children. Keep from freezing.

Incompatible Materials

Oxidizing agents. Bleach. Do not mix with other chemicals or cleaners.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Avoid contact with eyes. Skin

Contact Avoid contact with skin.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Water	> 90 mL/kg (Rat)	-	=
7732-18-5	- ' '		
Proprietary	> 90 mL/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity This product does not contain any carcinogens or potential carcinogens as listed by OSHA,

IARC or NTP.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Component Information

Not available

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

Not determined

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated Packaging Disposal should be in accordance with applicable regional, national and local laws and

regulations.

14. TRANSPORT INFORMATION

Note Please see current shipping paper for most up to date shipping information, including

exemptions and special circumstances.

DOT Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

15. REGULATORY INFORMATION

International Inventories

Not determined

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

US Federal Regulations

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product does not contain any substances regulated under applicable state right-to-know regulations

16. OTHER INFORMATION

NFPA_	Health Hazards	Flammability	Instability	Special Hazards
	1	0	0	None
<u>HMIS</u>	Health Hazards	Flammability	Physical Hazards	Personal Protection
	1	0	0	В

Issue Date:29-Oct-2013Revision Date:31-Oct-2013Revision Note:New format

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet



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	City	State	Postal Code	<u>Last Update</u> 02/28/2007
2008 Altom Court	St. Louis	MO	63146-4151	
Product Name	Product Number	Product Use		EPA Registration #
Cal-Shield	4148	Coil Protector		NA

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients	<u>% By Wt.</u>	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

Eves: 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 gastrintestinal 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 be Exposure: Respiratory illnesses.

SECTION 4 – FIRST AID MEASURES

Eves: 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 benificial (Mix 50g in 400 ml H2O and administer 5ml/kg, or 350ml for an average adult.

<u>Inhalation</u>: 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.

MSDS Number – Z0216

Sid Harvey Item number – 4148-08, 4148-32

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

<u>Storage Requirements</u>: 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.

Eve Protection: Safety Glasses or Chemical Splash Goggless

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

Exposure Guidelines: None Established

<u>Specific Engineering Controls (such as ventilation, enclosed process)</u>: Insure adequate ventilation. Where 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

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

<u>Hazardous Ingredients</u>	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

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

SECTION 15 – REGULATIORY INFORMATION

SECTION 15 - REGULATIONY INF	ORMATION
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	Health = 2
Identification System)	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 oraface 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 herin.