

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 Use Coil 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.

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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 Precautions

Use 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.

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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

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

Individual protection measures, such as personal protective equipment

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

Skin and Body Protection Wear suitable protective clothing.

Ensure adequate ventilation, especially in confined areas. Respiratory Protection

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

Odor None Light straw liquid cloudy **Appearance Odor Threshold** Not determined

Light straw Color

Remarks • Method Values Property

3.3-4.8 pH Not determined Melting Point/Freezing Point

IBP 100 °C / 212 °F **Boiling Point/Boiling Range** Tag Closed Cup

Flash Point None to boiling Equal to water **Evaporation Rate** Flammability (Solid, Gas) Liquid-not applicable **Upper Flammability Limits** Not determined

Lower Flammability Limit Not determined Not determined Vapor Pressure Not determined Vapor Density 1.01

Specific Gravity Soluble in water Water Solubility Not determined Solubility in other solvents **Partition Coefficient** Not determined Not determined Auto-ignition Temperature **Decomposition Temperature** Not determined

Not determined Kinematic Viscosity **Dynamic Viscosity** Water thin (<5 cps) Not determined **Explosive Properties** Not determined **Oxidizing Properties** 8.39 lb/gal Density

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

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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 7732-18-5	> 90 mL/kg (Rat)	-	-
Proprietary	> 90 mL/kg (Rat)	, mor ***	-

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

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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

IATA 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

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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

Instability **Special Hazards** Flammability **Health Hazards** NFPA None **Personal Protection Physical Hazards Health Hazards** Flammability HMIS

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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