Section 1: Product & Company Identification

Product Name: BC-1000
Product Uses: Non-Hazardous Biocide

Company: Plant Facility: Corporate Office:
CoilChem, LLC CoilChem, LLC
3928 Hwy 80 2103 East Ladd Rd
Rayville, LA 71269 Washington, OK 73093
(318) 728-6565 (405) 392-2505

Emergency Number: Contact Infotrac: 1-800-535-5053
S.D.S. Revision Date: January 8, 2015

Section 2: Hazards Identification

Emergency Overview: WARNING!!!
Form: Liquid
Color: Colorless
Odor: Odorless

Hazard Summary: Handle in accordance with good industrial hygiene and safety practice.
OSHA Hazards: MILD EYE IRRITANT

Potential Health Effects:

Primary Routes of Entry: Inhalation, Eyes, Skin, or Ingestion.

Inhalation: No hazards to be specially mentioned.
Skin: No hazards to be specially mentioned.
Eyes: May cause eye irritation.
Ingestion: May be harmful if swallowed.

Section 3: Composition/ Information on Ingredients

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Bis(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione</td>
<td>6440-58-0</td>
<td>31.80-34.80</td>
</tr>
<tr>
<td>Water</td>
<td>7732-18-5</td>
<td>29.00-31.00</td>
</tr>
<tr>
<td>5,5-Dimethylhydantoin</td>
<td>77-71-4</td>
<td>7.00</td>
</tr>
<tr>
<td>Mono(hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione</td>
<td>27636-82-4</td>
<td>30.00-33.00</td>
</tr>
</tbody>
</table>
Section 4: First-Aid Measures

First Aid Procedures:

Inhalation: No special precautions required.

Skin Contact: Wash with water and soap as a precaution, if skin irritation persists, contact a physician.

Eye Contact: Immediately flush eye(s) with plenty of water. If eye irritation persists, contact a physician immediately.

Ingestion: Immediately give large quantities of water to drink. Do not induce vomiting without medical advice. Never give anything to an unconscious person.

Section 5: Fire Fighting Measures

Flammable Properties:

Flash Point: > 212°F (100°C)
Ignition Temperature: Remarks: No Data Available.
Lower Explosion Limit: Remarks: No Data Available.
Upper Explosion Limits: Remarks: Not Applicable.

Fire Fighting:

Suitable Extinguishing Media: Water Spray; Dry Powder; Foam
Further Information: Use water spray to cool unopened containers.

Protective Equipment and Precautions for Firefighters:
Specific Hazards during Fire Fighting: Heating or Fire can release toxic gases.
Special Protective Equipment for Fire Fighters: In the event of a fire wear a self contained breathing apparatus.

Section 6: Accidental Release Measures

Personal Precautions: Use personal protective equipment.
Environmental Precautions: Prevent product from entering drains.

Methods for Containment: Contain spillage, and then collect with non-combustible
Methods for Clean up: Absorbent material (E.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (See Section 13.)

Section 7: Handling & Storage

Handling: No special precautions required.

Storage: Keep container tightly closed. To maintain product quality, do not store in heat or direct sunlight. Keep in a cool, dry, well ventilated place.
Section 8: Exposure Controls/ Personal Protection

Exposure Guidelines:
Contains no substances with occupational exposure limit values.

Personal Protective Equipment:

Eye Protection: Tightly fitting safety glasses.

Hand Protection: Protective gloves.

Body Protection: Choose body protection according to the amount and concentration you will be exposed to at the work place.

Respiratory Protection: No personal respiratory equipment required.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices.

Section 9: Physical & Chemical Properties

**Appearance:**
- Form: Liquid
- Color: Colorless
- Odor: Odorless

**Safety Data:**
- Flash Point: >212°F (100°C)
- Ignition Temperature: No Data Available
- Lower Explosion Limit: Not Applicable
- Upper Explosion Limit: Not Applicable
- pH: 6.5-7.5
- Boiling Point: No Data Available
- Density: 1.19 g/cm³ @ 77°F (25°C)
- Water Solubility: @ 68°F (20°C) Completely Miscible.
- Solubility in other solvents: @ 68°F (20°C) Medium: Ethanol / Completely Miscible.
- Viscosity: 14.5 mPa’s

Section 10: Stability & Reactivity

**Conditions to Avoid:** No Data Available.

**Materials to Avoid:** Strong Acids

**Hazardous Decomposition Products:** Note: Heating or fire can release toxic gases. Carbon Oxides/ Nitrogen Oxides

**Hazardous Reactions:** Hazardous polymerization does not occur.
Note: Stable under normal conditions.
Section 11: Toxicological Information

Acute Oral Toxicity: LD50 Rat
Dose: 2,890 mg/kg
Method: OECD Test Guideline 401

Acute Dermal Toxicity: LD50 Rabbit
Dose: > 2,000 mg/kg
Method: FIFRA

Acute Inhalation Toxicity: LC50 Rat
Exposure Time 4 hrs
Dose: > 2,05 mg/l
Method: FIFRA

Skin Irritation: Rabbit
Result: Non Irritant
Method: FIFRA
Exposure Time 4 hrs

Eye Irritation: Rabbit
Result: Mild Irritant
Method: FIFRA

Sensitization: Buehler Test Guinea Pig
Result: Not Sensitizing
Method: FIFRA

Further Information: Information given is based on data on the components and the toxicology of similar products. No data is available on the product itself.

Section 12: Ecological Information

Additional Ecological Information: Information given is based on data on the components and the ecotoxicology of similar products.

The Following Ecological Data Refers To: 1,3-BIS (hydroxymethyl)-5,5-dimethylimidazolidine-2,4-dione (CAS # 6440-58-0)

Biodegradability: Die Away Test
Concentration: 5 mg/l
Exposure Time: 28 days
Result: Readily Biodegradable 95%
Method: OECD 301 A

Acute Fish Toxicity: Acute Toxicity LC50
Species: Danion rerio (Zebra Fish)
Concentration: >82,30 mg/l
Exposure Time: 96 hrs.
Analytical Monitoring: Yes
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates:
Immobilization EC50
Species: Daphnia magna (Water Flea)
Concentration: 29,10 mg/l
Exposure Time: 48 hrs.
Analytical Monitoring: Yes
Method: OECD Test Guideline 202

Toxicity to Algae:
Growth Inhibition ErC50
Species: Desmodesmus subspicatus (green algae)
Dose: 12, 00 mg/l
Exposure Time: 72 hrs.
Analytical Monitoring: Yes
Method: OECD Test Guideline 201

Toxicity to Bacteria:
Respiration Inhibition EC50
Species: Activated Sludge
Dose: > 100, 00 mg/l
Exposure Time: 3 hrs.
Analytical Monitoring: Yes
Method: OECD 209

5, 5-Dimethylhydantoin (DMH) CAS # 77-71-4)

Biodegradability:
Die Away Test
Concentration: 25 mg/l
Exposure Time: 19 days
Result: Biodegradable 94%

CO2 Evolution Test
Concentration: 10 mg/l
Exposure Time: 28 days
Result: Readily biodegradable 88%
Method: OECD 301 B

Bioaccumulation:
Species: Lepomis macrochirus (bluegill sunfish)
Exposure Time: 42 days
Bioconcentration Factor (BCF): 1, 79
Method: OECD 305

Acute Fish Toxicity:
Acute Toxicity LC50
SAFETY DATA SHEET
BC-1000 (Non-Hazardous Biocide)

Species: Oncorhynchus mykiss (rainbow trout)
Concentration: > 972, 00 mg/l
Exposure Time: 96 hrs.
Analytical Monitoring: No
Method: US-EPA

Early Life Stage NOEC
Species: Pimephales promelas (fathead minnow)
Concentration: 14, 00 mg/l
Exposure Time: 33 days
Analytical Monitoring: Yes
Method: FIFRA

Toxicity to Daphnia and other Aquatic invertebrates:
Species: Daphnia magna (Water Flea)
Concentration: 6 200, 00 mg/l
Exposure Time: 48 hrs.
Analytical Monitoring: No
Method: EPA-FIFRA

Toxicity to Daphnia and other Aquatic Invertebrates:
Species: Daphnia magna (Water flea)
Concentration: 71, 00 mg/l
Exposure Time: 21 days
Analytical Monitoring: Yes
Method: OECD Test Guideline 202

Toxicity to Algae:
Species: Pseudokirchneriella subcapitata
Dose: > 1 000, 00 mg/l
Exposure Time: 96 hrs.
Analytical Monitoring: Yes
Method: OECD Test Guideline 201

Toxicity to Bacteria:
Species: Activated Sludge
Dose: > 1 000, 00 mg/l
Exposure Time: 3 hrs.
Analytical Monitoring: No
Method: OECD 209
Section 13: Disposal Considerations

Further Information: Dispose of in accordance with local regulations. Contact waste disposal services.

Section 14: Transportation Information

DOT: Not Dangerous Goods
TDG: Not Dangerous Goods
IATA: Not Dangerous Goods
IMDG-CODE: Not Dangerous Goods
RID: Not Dangerous Goods

Section 15: Regulatory Information

OSHA Hazards: Mild Eye Irritant
SARA 302 Reportable Quantity: 111 111 lbs
SARA 311/312 Hazards: Acute Health Hazard

EPCRA-EMERGEncy PLANNING COMMUNITY RIGHT-TO-KNOW

SARA 302 Components: Sara 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components: SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

US STATE REGULATIONS:

Massachusetts Right to Know Components: No components are subject to the Massachusetts Right to Know Act.
Pennsylvania Right to Know Components: No components are subject to the Pennsylvania Right to Know Act.
New Jersey Right to Know Components: No components are subject to the New Jersey Right to Know Act.
California Prop. 65 Components:

WARNING! This product contains a chemical known to the State of California to cause cancer. WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

This product has been classified according to the hazard criteria of the CPR and MSDS contains all of the information required by the CPR.

FEDERAL REGULATORY INFORMATION:
This product is EPA registered: EPA Registration No: 6836-208
Section 16: Other Information

HMIS CLASSIFICATION:

Health Hazard: 2
Flammability: 1
Reactivity: 0

This product's safety information is provided to assist our customers in assessing compliance with health, safety and environmental regulations. The information contained herein, is based on data available to us and is believed to be accurate, although no guarantee or warranty is provided by this company in this respect. Since the use of this product is within the exclusive control of the user, it is the user’s obligation to determine the conditions of safe use of this product. All materials in this product are produced in compliance with Public Law 94-469 (also known as the “Toxic Substances Control Act” of 1976).