

SAFETY DATA SHEET

SECTION 1 PRODUCT AND COMPANY INFORMATION

Product Name(s): FIRST STRIKE MICROCOAT FSMC-G, GSMC-Q, FSMC-P Product Code(s):

Uses: Cooling coil protectant.

Controlled Release Technologies, Inc. Company:

Address: 1016 Industry Drive; Shelby, NC 28152; USA

Telephone Number: (704) 487-0878 Fax Number: (704) 487-0877

Emergency Telephone Number: ChemTel Inc. 1- (800) 255-3924; + 01 (813) 248-0585 (International)

Date Issued: April 30, 2015 Date Revised: April 30, 2015

This SDS complies with the OSHA Hazard Communication Standard 29CFR1910.1200 as revised in May 2012 (GHS). It may not meet requirements in other countries.

SECTION 2 HAZARDS IDENTIFICATION

GHS WARNING

Skin Irritation (Category 2) Classification: Eye Irritation (Category 2B)

Aquatic Acute Toxicity (Category 3)

GHS Hazard Causes skin irritation Statements: Causes eye irritation

Harmful to aquatic life

GHS Prevention: Precautionary

Wash hands/skin thoroughly after Statements:

handling.

Wear protective gloves.

Response:

If on skin: Wash with plenty of water.

If skin irritation occurs: Get medical

advice/attention.

Avoid release to the environment If in eyes: Rinse cautiously with water for

> several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eve irritation persists: Get medical

advice/attention.

Take off contaminated clothing and wash it

before reuse.

Collect spillage.

Storage: Disposal:

None. Dispose of contents/container in accordance

with local/regional/national/international

regulations.

GHS Approximately 20% of this mixture consists of ingredient(s) of unknown acute toxicity.

Assessment:

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SECTION 2 HAZARDS IDENTIFICATION

Approximately 20% of the mixture consists of ingredient(s) of unknown hazards to the aquatic environment.

SECTION 3 COMPOSITION / INGREDIENTS

Component	CAS Number	EC Number	Concentration
Water	7732-18-5	231-791-2	65 - 85%
Polymer(s)	Proprietary		15 - 35%
Biocide	Proprietary		0.1 - 1.0%

Trade Secret Claims: Specific chemical identity and/or exact percentage (concentration) of components has been withheld as a trade secret.

SECTION 4 FIRST AID MEASURES

In case of contact, immediately flush eyes with plenty of water for at least 15 First Aid - Eyes:

minutes. Get medical attention, if irritation develops.

In case of contact, immediately flush skin with plenty of water for at least 15 First Aid - Skin:

minutes while removing contaminated clothing and shoes. Get medical attention immediately if irritation or rash develops and/or persists. Wash contaminated

clothing before reuse.

First Aid - Ingestion: If swallowed and feel unwell, call a physician or poison control center. DO NOT

> induce vomiting unless directed to do so by a physician or poison control center. If victim is fully conscious, give a cupful of water. Never give anything by mouth to

an unconscious person.

First Aid - Inhalation: If respiratory symptoms or other symptoms of exposure develop, move victim away

> from source of exposure and into fresh air. If symptoms persist, seek immediate medical attention. If victim is not breathing, clear airway and immediately begin

artificial respiration. If breathing difficulties develop, oxygen should be administered by qualified personnel. Seek immediate medical attention.

Effects - Acute and

Important Symptoms / Tissue redness/irritation.

Delayed:

Advice to Physician: Treat symptomatically.

FIRE FIGHTING MEASURES **SECTION 5**

Extinguishing Media: Treat surrounding material. Water spray, dry chemical, carbon dioxide, or

foam is recommended. Carbon dioxide can displace oxygen. Use caution

when applying carbon dioxide in confined spaces.

Specific Hazards: This product is not flammable. This product may give rise to hazardous

vapors in a fire. Vapors/fumes may be irritating, corrosive and/or toxic.

Protective equipment and

procedures for fire-fighters:

Wear full protective clothing and self-contained breathing apparatus.

Additional Advice: None.

ACCIDENTAL RELEASE MEASURES **SECTION 6**

Spill Procedures: Wipe up spills with an absorbent towel/material and transfer into suitable

containers for recovery or disposal. Finally flush area with water.

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SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear suitable protective clothing.

Environmental Precautions: Prevent the material from entering drains or water courses. Do not

discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

SECTION 7 HANDLING AND STORAGE

Handling: Wear appropriate personal protection (See Section 8) when handling this material.

The work area must be equipped with a safety shower and eye wash station. If exposed to the solution, avoid contact with skin and eyes. Wash thoroughly after

handling.

Storage: Keep container(s) tightly closed. Use and store this material at temperatures

between 15.5°C and 32.2°C (60-90°F) away from heat, direct sunlight and hot metal surfaces. Keep from freezing. Keep away from any incompatible materials (see

Section 10).

Additional Advice: Store in original container. Store as directed by the manufacturer.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational Exposure

Standards:

Exposure limits are listed below, if they exist.

Water: None. Polymer(s): None.

Engineering Control

Measures:

Biocide:

Engineering methods to prevent or control exposure are preferred. Methods

include process or personnel enclosure, mechanical ventilation (local

exhaust), and control of process conditions.

Respiratory Protection: A NIOSH certified self-contained breathing apparatus may be used under

conditions where airborne concentrations are expected to exceed exposure

limits.

None.

Hand Protection: The use of gloves impervious to the specific material handled is advised to

prevent skin contact, possible irritation and skin damage (see glove

manufacturer literature for information on permeability).

Eye Protection: Approved eye protection (safety glasses with side-shields or goggles) to

safeguard against potential eye contact, irritation, or injury is recommended.

Depending on conditions of use, a face shield may be necessary.

Body Protection: Impervious clothing should be worn as needed to prevent skin contact.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid
Color: Blue

Odor: Characteristic
Odor Threshold: Not available.

pH: 5 - 6

Melting Point/Range (°C/°F): 0°C / 322°F (water)
Boiling Point/Range (°C/°F): 100°C / 212°F (water)

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SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Flash Point (PMCC) (°C/°F):

Evaporation Rate:

Not available.

Flammability / Explosivity Limits in Air (%):

Not available.

Vapor Pressure: 23.8 mmHg (25°C) (water)

Vapor Density (Air = 1): Not available.

Relative Density: ca. 1.0

Solubility in Water:

Partly soluble.

Partly soluble.

Not available.

Autoignition Temperature (°C/°F):

Decomposition Temperature (°C/°F):

Viscosity:

Partly soluble.

Not available.

Not available.

Not available.

Explosive Properties: None.

Oxidizing Properties: None.

Volatile Organic Content (VOC) (g/l): ca. 0 g/l (as defined by 40CFR51.100)

SECTION 10 STABILITY AND REACTIVITY

Reactivity: Product will not undergo additional reaction.
Stability: Stable under normal storage conditions.

Hazardous Polymerization: Will not occur.

Conditions to Avoid: Contact with incompatible materials, excessive heat.

Incompatibilities: Oxidizing agents.

Hazardous Decomposition Oxides of carbon, oxides of sulfur, oxides of silicon, metal oxides,

Products: aromatic and aliphatic compounds, toxic by-products.

SECTION 11 TOXICOLOGICAL INFORMATION

If available, toxicity data for the product is given; otherwise component data is listed.

Acute Toxicity: This product is not expected to be appreciably toxic.

(Water) No data. (Polymer(s)) No data.

(Biocide) Oral LD50 (rat) 4267-4732 mg/kg; Dermal LD50 (rat) > 2000

mg/kg; Inhalation LC50 (rat) 0.089-0.329 mg/l (4 hr)

Skin Corrosion / Irritation: The product may be irritating to the skin.

(Water) No data.

(Polymer(s)) May cause skin irritation.

(Biocide) Corrosive to skin.

Serious Eye Damage /

Irritation:

The product may be irritating to the eyes.

(Water) No data.

(Polymer(s)) May cause eye irritation.

(Biocide) Corrosive to eyes.

Respiratory or Skin

Sensitization:

The product is not expected to be dermally sensitizing; however, certain

sensitive individuals may experience an allergic reaction.

(Water) No data. (Polymer(s)) No data.

(Biocide) Dermally sensitizing (guinea pig).

SECTION 11 TOXICOLOGICAL INFORMATION

Mutagenicity: This product is not expected to be mutagenic.

(Water) No data. (Polymer(s)) No data.

(Biocide) Not mutagenic (variety of studies).

Carcinogenicity: This product is not expected to be carcinogenic.

(Water) No data. (Polymer(s)) No data. (Biocide) No data.

Reproductive / This product is not expected to be developmentally harmful.

Developmental Toxicity: (Water) No data. (Polymer(s)) No data.

(Biocide) Developmental toxicity was observed, but only at maternally toxic

doses.

Chronic/Subchronic (Water) No data.

Toxicity: Specific Target (Polymer(s)) No data.

Organ/Systemic Toxicity – (Biocide) No data.

Single Exposure:

Chronic/Subchronic (Water) No data.

Toxicity: Specific Target (Polymer(s)) No data.

Organ/Systemic Toxicity – (Biocide) No data.

Repeated Exposure:

Aspiration Hazard: This product is not expected to be an aspiration hazard.

Additional Information: None.

SECTION 12 ECOLOGICAL INFORMATION

If available, ecological data for the product is given; otherwise component data is listed.

Acute Ecotoxicity: This product may be harmful to aquatic species.

(Water) No data. (Polymer(s)) No data.

(Biocide) LC50 (Bluegill sunfish) 0.540 mg/l/96 hr; EC50 (Daphnia magna)

0.093 mg/l/48 hr; LC50 (green algae) 0.240 mg/l/72 hr.

Mobility: (Water) No data.

(Polymer(s)) No data. (Biocide) No data.

Persistence/Degradability: (Water) No data.

(Polymer(s)) No data. (Biocide) No data.

Bioaccumulation: (Water) No data.

(Polymer(s)) No data. (Biocide) No data.

Other adverse effects: None.

SECTION 13 DISPOSAL CONSIDERATION

Environmental precautions: Prevent the material from entering drains or water courses. Do not

discharge directly to a water source. Advise Authorities if spillage has entered watercourse or sewer or has contaminated soil or vegetation.

Product Disposal: Dispose in accordance with all local, state (provincial), and federal

regulations. Under RCRA, it is the responsibility of the product's user to determine at the time of disposal, whether the product meets RCRA criteria

SECTION 13 DISPOSAL CONSIDERATION

for hazardous waste. This is because the product uses, transformations, mixtures, processes, etc. may render the resulting materials hazardous.

Do not remove label until container is thoroughly cleaned. Empty Container Disposal:

containers may contain hazardous residues. This material and its

container must be disposed of in a safe way.

SECTION 14 TRANSPORT INFORMATION

DOT Proper Shipping Name: Not regulated

UN Number: None. **UN Class:** None. **UN Packaging Group:** None. Reportable Quantity: None. Marine Pollutant: None.

Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Consult current IATA Regulations prior to shipping by air.

REGULATORY INFORMATION **SECTION 15**

US Toxic Substance Control

Act:

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA)

Chemical Substance Inventory.

Canadian Domestic Substance

List:

One or more component(s) of this product are not listed on the Canadian

Domestic List. Limited quantities may be permitted.

EU Existing Inventory of Chemical Substances:

One or more component(s) of this product are not in compliance with the inventory listing requirements of the E.U. Existing Inventory of Chemical Substances (EINECS). One or more component(s) of this product have not been pre-listed under REACh. Limited quantities may be permitted.

TSCA Sec. 12(b) Export

Notification:

This product does not contain a chemical at or above de minimis

concentrations which requires reporting.

Canadian WHMIS

D.2.B

Classification:

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the

CPR.

Massachusetts Right-To-Know:

This product does not contain materials subject to disclosure under the

Massachusetts' Right-To-Know Law.

New Jersey Right-To-Know:

This product does not contain materials subject to disclosure under the

New Jersey's Right-To-Know Law.

Pennsylvania Right-To-Know:

This product does not contain materials subject to disclosure under the

Pennsylvania's Right-To-Know Law.

California Proposition 65:

This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.

SARA TITLE III-Section 311/312 Categorization (40

CFR 370):

Immediate (acute) hazard

SARA TITLE III-Section 313

(40 CFR 372):

This product does not contain materials which are listed in Section 313

at or above de minimis concentrations.

CERCLA Hazardous This product does not contain materials subject to reporting under

SECTION 15 REGULATORY INFORMATION

Substance (40 CFR 302) CERCLA and Section 304 of EPCRA.

Water Hazard Class (WGK): This product is slightly water-endangering (WGK=1).

Other Chemical Inventories: Australia (AICS): One or more component(s) not listed.

China (IECSC):

Japan (ENCS):

One or more component(s) not listed.

One or more component(s) not listed.

Korea (KCI):

One or more component(s) not listed.

Philippines (PICCS): One or more component(s) not listed.

SECTION 16 OTHER INFORMATION

NFPA Rating - HEALTH: 1
NFPA Rating - FIRE: 1
NFPA Rating - REACTIVITY: 0

NFPA Rating - SPECIAL: NONE

SDS Date Issued: April 30, 2015

SDS Current Version: 1.0 Version Date: April 30, 2015

SDS Revision History: v1.0 Initial version.

Abbreviations: GHS: Globally Harmonized System of Classification and Labeling of

Chemicals

CAS#: Chemical Abstract Services Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

NFPA: National Fire Protection Association DOT: US Department of Transportation

RCRA: US Resource Conservation and Recovery Act

TLV: Threshold Limit Value
TWA: Time-Weighted Average
PEL: Permissible Exposure Limit
STEL: Short Term Exposure Limit

WEEL: Workplace Environmental Exposure Levels AIHA: American Industrial Hygiene Association

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

R: Risk S: Safety

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50% EC50: Effective Concentration 50% BCF Bioconcentration Factor BOD: Biological Oxygen Demand

Koc: Soil Organic Carbon Partition Coefficient.

Tlm: Median Tolerance Limit

Key References: United States National Library of Medicine's TOXNET

Patty's Toxicology, 5th Edition

European Commission's Institute for Health and Consumer Protection

American Conference of Governmental Industrial Hygienists

International Agency for Research on Cancer United States National Toxicology Program

United States Occupational Safety and Health Administration

United States Department of Transportation

Supplier Material Safety Data Sheets

Disclaimer: The data contained herein is based on information that the company

SECTION 16 OTHER INFORMATION

believes to be reliable, but no expressed or implied warranty is made with regard to the accuracy of such data or its suitability for a given situation. Such data relates only to the specific product described and not to such products in combination with any other product and no agent of the company is authorized to vary any of such data. The company and its agents disclaim all liability for any action taken or foregone on reliance upon such data.

Prepared by:

ChemOne Compliance, LLC