

# Goodway CoilShine®-BC

Controls and Inhibits Microorganisms in HVAC/R Systems  
(EPA Reg. No. 67212-3-83022)

## Description

Goodway's **CoilShine®-BC** controls and inhibits, for up to six months, the growth of microorganisms (gram positive/gram negative bacteria, algae, mold) that can form a *biofilm* on cooling/evaporative coils and other working parts of HVAC/R systems. Biofilms on HVAC/R equipment and coils has been linked to "Sick Building Syndrome", "Dirty Sock Syndrome", moldy/musty odors, poor overall Indoor Air Quality, and can lead to increased operating costs as it reduces the efficiency of the heat transfer process. **CoilShine®-BC** helps control the contaminants that often cause poor Indoor Air Quality ("IAQ") at the source – the HVAC/R system, which may spread these harmful contaminants that damage surfaces and secrete toxic byproducts to living and working areas. Treatment of the coils with **CoilShine®-BC** with its exclusive rust and corrosion inhibiting action (prevents corrosion caused by sulfuric acid secreted by common bacteria) can make systems run healthier, more efficiently, and last longer. **CoilShine®-BC** is effective in extending the useful life of HVAC/R units while increasing overall energy efficiency by keeping fins and coils clean.

## Directions For Use

**CoilShine®-BC** is easily applied full strength with the use of any of the **CoilPro®** family of HVAC Coil Cleaning Systems.

1. **CoilShine®-BC** is registered with the EPA for use in: flexible ducts fabricated of metal or plastic, unlined sheet metal ducts, air handlers, cooling coils, fan coil units, condensate drain pans, humidifiers, dehumidifiers, registers, grills, diffusers, fans and fan housings, transfer boxes, turning vanes, return ducts/plenums, and rooftop units.
2. HVAC/R equipment should be clean before application of **CoilShine®-BC** - use Goodway's **CoilShine®** Coil Cleaning Foaming Solution to thoroughly remove grease, dust, grime etc from equipment.
3. Do not dilute **CoilShine®-BC**. Use full strength right out of the container.
4. **WARNING!! THOROUGHLY WASH ALL APPLICATION EQUIPMENT OR CHEMICAL TANKS PRIOR TO USE TO AVOID CONTAMINATION WITH OTHER CHEMICALS – DANGEROUS FUMES OR CONDITIONS MAY OCCUR!!!**
5. After coils have been cleaned, thoroughly saturate all areas to be treated (including coils, blower assemblies, drain pans, etc.) with **CoilShine®-BC**. There is no need to evacuate the premises during application.
6. Do not rinse off!! **CoilShine®-BC** will dry on the equipment and leave a protective coating that is active for up to 6 months.

## FEATURES

- Controls the growth of microorganisms
- Inhibits the reformation of biofilm for up to 6 months
- Reduces frequency of coil cleaning cycle
- Increases HVAC/R system operating efficiency
- Reduces system maintenance costs and prolongs system life
- No need to evacuate premises during application
- Will not stain or bleach surfaces or fabrics
- ***EPA registered antimicrobial authorized for use in HVAC/R systems***
- EPA Reg. No. 67212-3-83022
- Fungistat
- Bacteriostat
- Mildewstat

## PROPERTIES

pH:	2.5 - 4.5
Specific Gravity:	1.00
Appearance:	Clear Liquid
Odor:	Mild
Flash Point:	Not Combustible
DOT Shipping Label:	None

## SAFETY DATA

Before using product carefully read label information and Material Safety Data Sheet

## PACKAGING

Four 1-gallon containers per case of ready to use ***CoilShine®-BC***

## RELATED PRODUCTS

***CoilShine®*** Coil Cleaning Detergent:

Alkaline, non-corrosive heavy duty foaming coil cleaner that safely cleans condenser coils, evaporator coils, heating coils, window units, air filters, air handler fins, louvers, and other dirty HVAC/R components without damaging metal surfaces.

***CoilPro®*** family of HVAC/R Equipment Cleaning Systems:

CC-100 Backpack Coil Cleaning System, 100 PSI @ 0.5 GPM

CC-140 Dolly Mounted Coil Cleaning System, 140 PSI @ 0.8 GPM

CC-600 Dolly Mounted High Flow Coil Cleaning System, 600 PSI @ 1.6 GPM

CC-JR Compact, Battery Powered Coil Cleaning System, 125 PSI @ 0.6 GPM

Goodway Technologies Corp. 420 West Ave Stamford, CT 06902		FOR MSDS INFORMATION  Phone: (203) 359-4708 Toll Free: (800) 243-7932		Page 1 of 2  Effective April 16, 2012	
<b>MATERIAL SAFETY DATA SHEET (MSDS)</b>					
<b>Section 1: Chemical Product and Company Identification</b>					
<b>Product Name:</b>	CoilShine ®-BC			<b>HMIS Rating (Edition III)</b>	
<b>Product Class:</b>	Microbial Growth Inhibitor			Health	0
<b>EPA Registration No.:</b>	67212-3-83022			Flammability	0
<b>EPA Est. No:</b>	67212-FL-001			Physical Hazard	0
<b>Emergency Contact:</b>	Chemtrec (800)-424-9300				
<b>Section 2: Composition and Information on Hazardous Ingredients</b>					
<b>Chemical Name:</b>	<b>CAS #:</b>	<b>Percent by Weight:</b>	<b>OSHA PEL:</b>		
2-Bromo-2-nitropropane-1, 3-diol	52-51-7	0.051 %	Not listed by OSHA		
Dipropylene glycol monomethyl ether	34590-94-8	0.743 %	TWA 100 ppm STEL 150 ppm		
<b>Section 3: Hazards Identification for Exposure</b>					
Routes of entry include eyes, ingestion, inhalation, and skin contact.					
<b>Eyes:</b>	Classified as non-irritating				
<b>Ingestion:</b>	Not expected to be irritating or hazardous.				
<b>Inhalation:</b>	Not expected to be irritating or hazardous.				
<b>Skin Contact:</b>	Not expected to be irritating or hazardous. Not a sensitizer.				
<b>Section 4: First Aid Measures</b> – When product is used according to directions, exposure to the product is not expected to cause problems. However, if a problem arises and persists, seek medical help					
<b>Eyes:</b>	As a precaution, hold eye open and rinse with water for a few minutes.				
<b>Section 5: Fire Fighting Measures</b>					
<b>Special Fire Fighting Instructions:</b>	As in any fire fighting procedure, wear a self-contained NIOSH-approved breathing apparatus and protective clothing.				
<b>Extinguishing Media:</b>	Use appropriate media to extinguish supporting fire.				
<b>Flammability:</b>	> 150°F / 65.5°C; Product is not expected to be flammable.				
<b>Flash Point:</b>	Not available				
<b>Section 6: Accidental Release Measures</b>					
Flood with water, flush into sewer; or absorb and dispose in non-hazardous landfill					
<b>Section 7: Handling and Storage</b>					
<b>Handling:</b>	Do not use without reading booklet for directions.				
<b>Storage:</b>	Store in original container with lid closed. Keep out of reach of children. Keep away from heat.				
<b>Section 8: Personal Protective Exposure Control</b> – As any product, minimize exposure when possible.					
<b>Engineering Control:</b>	Use in well ventilated area.				
<b>Eye/Face Protection:</b>	Wear protective eyewear, glasses, goggles, or face shield				
<b>Skin Protection:</b>	Protective (rubber or latex) gloves when using product for extended time				
<b>Respiratory:</b>	None required – follow OSHA guidelines for your application				

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<b>Product Name:</b>	CoilShine ®-BC			
<b>Section 9: Physical and Chemical Properties</b>				
<b>Appearance:</b>	Clear and Colorless	<b>pH @ 20°C / 68°F:</b>	2.5 – 4.5	
<b>Boiling Point:</b>	~ 150°F / 65.5°C	<b>Solubility in Water:</b>	Complete	
<b>Evaporation Rate:</b>	Not available	<b>Specific Gravity:</b>	1.000 – 1.050	
<b>Freezing Point:</b>	< 17°F / -8.3°C	<b>Vapor Density:</b>	Not available	
<b>Odor:</b>	Mild	<b>Vapor Pressure:</b>	Not available	
<b>Section 10: Stability and Reactivity</b>				
<b>Chemical Stability:</b>	Stable			
<b>Incompatibles:</b>	Amines, Alkaline, Oxidizers,			
<b>Hazardous Products From Decomposition:</b>	Carbon oxides (when mixed with an oxidizer), Formaldehyde (when mixed with an alkaline)			
<b>Hazardous Polymerization:</b>	Will not occur			
<b>Section 11: Toxicological Information</b>				
<b>LD<sub>50</sub>/LC<sub>50</sub>/EC<sub>50</sub>:</b>	LC <sub>50</sub> : >2.09 mg/L (rat); LD <sub>50</sub> : > 5000 mg/kg (rat)			
<b>Carcinogenicity:</b>	None known			
<b>Section 12: Ecological Information</b>				
<b>Ecotoxicity:</b>	Not available			
<b>Section 13: Disposal Information</b>				
This product is toxic to fish. Do not contaminate water by cleaning of equipment or disposal of wastes. Triple rinse container, then offer for recycling or puncture. Dispose of in landfill or incinerate. If burned, stay out of smoke.				
<b>Section 14: Transportation Information</b>				
<b>D.O.T. Shipping Name:</b>	Not regulated			
<b>D.O.T. Hazard Class/ I.D. #/ Packing Group:</b>	Not regulated			
<b>D.O.T. Label:</b>	None			
<b>U.S. Surface Freight Class:</b>	Not regulated			
<b>Air Transportation:</b>	Not regulated			
<b>Section 15: Regulatory Information</b>				
<b>TSCA:</b>	All ingredients are listed in the Toxic Substances Control Act (TSCA) inventory.			
<b>OSHA:</b>	Not regulated			
<b>Clean Air Act:</b>	Not regulated			
<b>State:</b>	Not regulated			
<b>Section 16: Other</b>				
Goodway Technologies Corp. assumes no legal responsibility or liability from the described product's use. All chemicals possess unknown potential hazards. The information herein should be used only to supplement the end user's existing knowledge. Read directions for proper use. This MSDS was written for the product as packaged. Product may turn yellow, orange, or brown if pH becomes alkaline; however, this should not affect the product's effectiveness. If frozen, crystals may remain in container after thawing. Shake until dissolved before using. Cleaning Contractors shall comply with all applicable OSHA regulations.				
<b>Approved by:</b>	Paul Bozek			On: April 16, 2012