

SAFETY DATA SHEETAccording to OSHA Hazard Communication Standard 29 CFR 1910.1200; GHS 4th Revision**SECTION 1 IDENTIFICATION**

Product Name **ProBac[®] CRT Cartridge System**
Identified uses Used in maintaining, cleaning and deodorizing toilets, drains, traps, plumbing systems and septic tanks.
Company MicroSpring International, LLC
1148 Elizabeth Ave., Suite B
Lancaster, PA 17601
Phone: (866) 864-3150 (USA only)
(717) 208-7863
Emergency: (800) 424-9300 (Chemtrec)
Website <http://www.microspringintl.com>

SECTION 2 HAZARD IDENTIFICATION

Hazard Classification	Category	H-statement
Eye Irritant	2B	Causes eye irritation. (H320)
Skin sensitization	1	May cause an allergic skin reaction. (H317)
Skin corrosion/irritation	3	Causes mild skin irritation (H316)

Hazard pictograms*Signal words**Hazard statements**Precautionary statements*

Warning
Causes eye irritation. (H320)
May cause an allergic skin reaction. (H317)
Causes mild skin irritation. (H316)
Avoid breathing fumes or vapors. (P261)
Wash hands thoroughly after handling. (P264)
Contaminated work clothing should not be allowed out of the workplace. (P272)
Wear protective gloves. (P280)
IF ON SKIN: Wash with soap and plenty of water. (P302 + P352)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)
If skin irritation or rash occurs, get medical advice/attention. (P333 + P313)
If eye irritation persists, get medical advice/attention. (P337 + P313)
Take off contaminated clothing and wash it before reuse. (P362 + P364)
Dispose of contents/container in accordance with local, state and federal regulations. (P501)

*Further information**Other hazards***SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS**

Chemical Identity Non-pathogenic, naturally-occurring microbes and surfactants in water.

Common name**Synonyms****Hazardous Components****Chemical Name (Concentration)****CAS-No**

Ethoxylated alcohols (<1%)

68439-45-2

Sodium bicarbonate (1%)

114-55-8

Non-Hazardous Components**Name****CAS-No**

Polyethyleneglycol (~1%)

25322-68-3

Viable bacterial cultures (in water) (> 90%)

7732-18-5

Latex Opacifier Lattice (<1%)

35209-54-2

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SECTION 4 FIRST-AID MEASURES

Eye Product may cause eye irritation. Direct contact with eyes should be avoided. In case of contact with eyes, flush eyes with low pressure water for at least 15 minutes. If irritation persists, seek medical attention.
Skin May lead to opportunistic infection of broken skin or allergic reaction in susceptible individuals. In case of contact with skin, wash skin with soap and water. Apply disinfectant and/or antibiotic to open wounds. Remove contaminated clothing and wash. If irritation persists seek medical attention.
Inhalation May aggravate asthmatic, bronchial conditions. If inhaled, remove from contaminated area to fresh air. Report situation. Seek medical attention if allergic response exhibited.
Ingestion Ingestion of material may cause irritation to mouth, pharynx, esophagus and stomach. If swallowed, rinse mouth and throat with tap water. Seek medical attention.
 Most important symptoms/effects, acute and delayed
 Further information

SECTION 5 FIRE-FIGHTING MEASURES

Suitable extinguishing media Use water spray, alcohol-resistant foam, carbon dioxide or dry chemical.
Specific hazards arising from the chemical May cause allergic respiratory reaction.
Special protective actions for fire-fighters As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures Provide sufficient ventilation.
Environmental precautions Spilled preparation should be removed immediately to avoid formulation of dust from dried preparation. Take up by mechanical means preferably by a vacuum cleaners equipped with a high efficiency filter. Flush remainder carefully with plenty of water. Avoid splashing and high pressure washing (avoid formulation of aerosols). Ensure sufficient ventilation. Wash contaminated clothing.
Methods and materials for containment and cleaning up Pick up and transfer to properly labeled containers.

SECTION 7 HANDLING AND STORAGE

Precautions for safe handling Use goggles or face shield when pouring to avoid contact with eyes. Provide eye wash capability. Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities Protect from sunlight. Do not expose to temperatures exceeding 122°F (50°C). Keep containers tightly closed in a dry, cool and well-ventilated place.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION
Control Parameters

Name	% by Weight	TLV (ACGIH)	PEL (OSHA)
None			

* Specific limits not set for these chemicals. Limits are shown for Particles Not Otherwise Regulated (PNOR) or Particles Not Otherwise Classified (PNOC). First number is for total dust second number { } is for respirable dust

Personal Safety Equipment

Eye Protection Avoid contact with eyes. Use safety goggles or safety glasses with side shields.
Skin Protection Wear long-sleeve shirt, trousers, safety shoes, rubber gloves

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Respiratory protection
 Industrial Hygiene

In case of insufficient ventilation, wear suitable respiratory equipment.
 Handle in accordance with good industrial hygiene and safety practices. Wash hands and exposed skin after contact. Remove and wash contaminated clothing.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

BASIC PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Opaque green liquid
Odour	scented
Odour threshold	Information not available
pH	7 -9
Melting point /Freezing Point	Information not available
Initial Boiling point and boiling point range	> 100°C
Flash Point	Information not available
Evaporation rate	Information not available
Flammability (solid; gas)	Information not available
Upper/lower flammability or explosive limits	Information not available
Vapour pressure	Approximately equal to water
Vapour density	Approximately equal to water
Relative density	Information not available
Solubility (ies)	99% in water
Partition coefficient: n-octanol/water	Information not available
Auto-ignition temperature	Information not available
Decomposition temperature	Information not available
Viscosity	> Water
Other Physical/Chemical Properties	Specific gravity 1.0 at 25°C

SECTION 10 STABILITY AND REACTIVITY

Reactivity	Information not available
Possibility of hazardous reactions	Information not available
Conditions to avoid	Excessive temperature variations below 32°F (0°C) or above 122°F (50°C)
Incompatible materials	Strong acids or alkali compounds and strong oxidizing agents may inactivate biological cultures.
Hazardous decomposition products	Information not available

SECTION 11 TOXOLOGICAL INFORMATION

Acute toxicity	None known
Skin Corrosion/Irritation	Information not available
Serious Eye Damage/Irritation	Information not available
Respiratory or Skin Sensitization	Information not available
Ingestion	Information not available
Germ Cell Mutagenicity	Information not available
Carcinogenicity	None
Reproductive Toxicity	Information not available
Specific Target Organ Toxicity – Single Exposure	Information not available
Specific Organ Toxicity – Repeated Exposure	Information not available
Aspiration Hazard	Information not available
General Remarks	Information not available

SECTION 12 ECOLOGICAL INFORMATION



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Toxicity	None known
Persistence and degradability	Readily biodegradable
Bioaccumulative potential	Information not available
Mobility in Soil	Information not available
Other adverse effects	Do not apply to surface water bodies

SECTION 13 DISPOSAL CONSIDERATIONS

Methods	Dispose of in accordance with current Federal, State, and Local regulations.
Containers	Dispose of wastes in an approved waste disposal facility.

SECTION 14 TRANSPORTATION INFORMATION

UN Number	Mixture not classified as Hazardous according to Regulation (EC) 1272/2008.
UN Proper Shipping Name	n/a
Transport Hazard Class	n/a
Packing Group (if applicable)	n/a
Environmental Hazards	n/a
Special Precautions for User	n/a
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code	n/a
DOT Proper Shipping Name	Chemicals not otherwise indexed (NOI) non-hazardous.

SECTION 15 REGULATORY INFORMATION

EU Directive 2000_54 regarding risks from biological agents: micro-organisms in Class 1 may be used without restriction.

All ingredients used are listed on the USEPA TSCA Inventory list.

TSCA, DSL – compliant

WHMIS Classification: D2B

WGK-1 (Water Hazards Class 1)

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 40 CFR Part 372.

SARA 311/312 Hazardous Categorization: No acute health hazard, chronic health hazard, fire hazard, sudden release of pressure hazard, or reactive hazard.

Clean Water Act (CWA): 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).

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). There may be specific reporting requirements at the local, regional or state level pertaining to releases of this material.

California Proposition 65: This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class D2B Toxic materials: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.



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SECTION 16 OTHER INFORMATION

Key: N/A, n/a – Not available

Mixture classified as not dangerous according to Regulation (EC) 1272/2008.

Observe employment restrictions for people.

Components not precisely identified are proprietary or non-hazardous. All chemical ingredients appear on the EPA TSCA inventory.

The microbes in this product are Class 1 microbes, defined by the US Centers for Disease Control as not likely to cause disease in healthy humans and animals. However, contact with open wounds should be avoided; persons who have a compromised immune system or a history of severe allergic response should avoid contact and/or breathing dust or mist from product handling or manufacturing processes.

The information contained in this Safety Data Sheet, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty or guarantee. Since the conditions of use are beyond the control of our company, it is the responsibility of the user to determine the conditions of safe use of this product. The information in this sheet does not represent analytical specifications; for this information contact MicroSpring International, LLC. Technical Department.