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York, PA 17406  
1-800 297- 8266  
(717) 848-2570 FAX

**Material Safety Data Sheet  
GCS-3013**

0	Health
0	Flammability
0	Reactivity
B	Protective Equipment

PRODUCT #3013, ANTIMICROBIAL REAGENT (BIOCIDE)  
US EPA REGISTRATION # 9386-36-39637  
US EPA EST. NR 55618-SC-001

**Identity: GCS-3013**

**Section I - Manufacturer's Information**

GUARDIAN CSC  
6000 Susquehanna Plaza Dr.  
YORK, PA 17406  
(717) 848-2540  
[www.guardiancsc.com](http://www.guardiancsc.com)

Emergency Phone: CHEMTREC  
Information: 1-800-424-9300  
Updated: 1/1/14  
DOT ID: 0000  
Chemical Family: Water Treatment  
Hazard Class: Biocide (Non-Haz)

**Section II - Hazardous Ingredients/Identity Information**

Hazardous Components	CAS	OSHA PEL	ACGIH TLV	%
Triazine-2,4 diamine, chloro-N, 1-1 diamethylethyl)-N-ethyl (Terbutylazine)	5915-41-3	N/A	N/A	Minor

**Section III - Physical/Chemical Characteristics**

Boiling Point:	N/A	Specific Gravity (H <sub>2</sub> O=1):	0.95 – 1.05
Vapor Pressure:	N/A	Melting Point:	30 – 35°F
Vapor Density:	N/A	Evaporation Rate (H <sub>2</sub> O=1):	N/A
Solubility In Water:	100%	pH:	6.0 - 9.0
Appearance And Odor:	Off white dispersion with musty odor		

**Section IV - Fire and Explosion Hazard Data**

Flash Point:	N/A	Flammable Limits LEL:	N/A	UEL:	N/A
Method Used:	N/A				

**Extinguishing Media/Special Procedures:**

Not applicable

**Unusual Hazards:**

Thermal decomposition products may be toxic.

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**Section V - Reactivity Data**  
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Stability:	Stable
Conditions to Avoid:	N/A
Incompatibility (Materials to Avoid):	Strong oxidizing agents, strong alkalis, strong acids.
Hazardous Decomposition or Byproducts:	Thermal decomposition produces oxides of carbon, nitrogen, and chlorine compounds.
Hazardous Polymerization:	May not occur
Personnel Conditions to Avoid:	Extended contact with skin or inhalation

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**Section VI - Health Hazard Data**  
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**Route(s) of Entry:**

Inhalation: Mild                      Skin: Mild                      Ingestion: Severe

**Health Hazards (Acute and Chronic):**

Acute and chronic health hazards are difficult to accurately assess for mixtures. In general see the first aid section for acute effects and long term effects would have to be derived from these immediate results. Specific chronic effects can be studied from the individual hazardous chemicals as indicated under Section II as the best guess without extensive laboratory studies.

**Carcinogenicity:**

NTP: None Known                      IARC Monographs: None Known                      OSHA: None

**Signs and Symptoms of Exposure:**

Immediate contact may cause burning of the skin, eyes, and mucous membranes. Exposure to material can be corrosive to all body tissue.

**Medical Conditions Generally Aggravated By Exposure:**

A knowledge of available toxicology information and of the physical properties of the material suggests that exposure is unlikely to aggravate existing medical conditions. However, due to the widely varying uses and personal exposures possible, an individual will have to evaluate his/her particular situation.

**Emergency and First Aid Procedures:**

**EYES:** Flush eyes with copious amounts of water for at least 15 minutes. Seek medical attention immediately.

**SKIN:** Wash thoroughly with soap and water, apply lotion if irritation continues.

**INHALATION:** Remove to fresh air; give oxygen if needed, or artificial respiration to maintain breathing. Get a Doctor if indicated.

**INGESTION:** Material can be toxic is swallowed. Careful gastric lavage is required. Wash mouth and other contacted parts with water. Never give any substance to an unconscious person. Give one or two glasses of water or mild to dilute. **CALL A DOCTOR**

**DO NOT INDUCE VOMITING IF:**

Victim is in convulsions. Victim has symptoms of severe pain, burning sensation in the mouth or throat, or is already vomiting. Victim has ingested alkali, acid or petroleum distillate.

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**Section VII - Precautions for Safe Handling and Use**  
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**Steps To Be Taken In Case Material Is Released Or Spilled:**

Large spills can be sucked up with a vacuum truck for further treatment. Small spills should be controlled with absorbent material. Shovel all spilled and absorbed material into suitable container for disposal in accordance with Federal, State, and Local laws.

**DO NOT FLUSH TO STORM OR SANITARY SEWER.**

**Waste Disposal Method:**

Since Federal, State, and Local laws vary greatly from situation to situation, no one preferred waste disposal method can be given.

The effluent from this product should **not** be discharged into any river, lake, stream, creek, or water shed that might contaminate drinking water unless the discharge has been specifically permitted by the proper authority as the DER, DEP, etc. This product is approved for landfill or incineration; observe RCRA Act requirements for disposal.

**Precautions to Be Taken in Handling and Storage:**

Do not freeze product. Do not subject product to excessive heat. KEEP OUT OF REACH OF CHILDREN. Do not contaminate with food stuffs. Do not mix with other chemicals except under direct supervision of a chemist or technically trained individual. Mix only with water. During storage and transportation of the product, keep product dry at all times, and do not exceed container integrity (improperly double or triple decking of palletized goods). If sensitivity or aggravations of allergy, or unanticipated personal health problems become evident, stop use and see your supervisor. Keep in mind that often the use solution and the concentrate will have different safety precautions.

**Other Precautions:**

Wear safety glasses, goggles or face shield. Use PVC or rubber coated gloves. If required to meet TLV requirements, wear self-contained breathing apparatus. Use chemical apron. Have present eye wash and safety shower. Store in a cool dry area. Avoid temperature extremes.

Launder all clothing before reuse. Discard all contaminated gloves, boots, and other clothing that cannot be properly cleaned.

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**Section VIII - Control Measures**  
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**Respiratory Protection (Specific Type):**

Usually not needed.

**Ventilation:**

Local Exhaust:	Yes	Recommended:	N/A	Special:	N/A
Mechanical (General):	Usually sufficient			Other:	N/A

**Protective Gloves:**

PVC-coated, rubber or similar type is recommended for repeated contact with use solution, or direct contact with concentrate.

**Eye Protection:**

Safety goggles and face shield are always recommended, as are safety showers and eye wash fountains in all processing areas.

**Other Protective Clothing or Equipment:**

Wear chemical resistant protective clothing when handling the product. Wear long sleeve shirts and pants. Launder dirty uniforms regularly. Wash daily to maintain good cleanliness when in contact with various cleaning or water treating chemicals.

**Work/Hygienic Practices:**

Non-slip work shoes with an apron are good practices to follow.

--- START CLEAN --- STAY CLEAN --- END CLEAN = WORK SAFELY

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**Section IX – Ecotoxicity Information**  
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The following ecotoxicity data is available for GCS-3013:

Daphnia magna LC<sub>50</sub> (48 hours) – 39 mg/L

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**Section X - Documentary Information**  
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**Comments:**

Section II Hazardous Material Section Percentage Key. If no hazardous chemicals are present then this section is not applicable.

Nil	-> 0.0% to 0.1%
Trace	-> 0.1% to 1.0%
Some	-> 1.0% to 5.0%
Minor Comp.	-> 5.0% to 25.0%
Substantial	->25.0% to 50.0%
Major Comp.	->50.0% to 100.0%

Substances listed in Section II are those identified as being at a concentration of 1% or greater or 0.1% if the substance is on the list of potential carcinogens cited in OSHA Hazard Communication Std.

If Section II does not contain any hazardous chemicals as presently defined in our applicable tables the message...

\*\*\*\*\* NO HAZARDOUS CHEMICALS \*\*\*\*\*

.... will appear in this section above.

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**Section XI – Regulatory Status Information**  
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Toxic substances control act (TCSA): All components of this product are listed in the Toxic Substances Control Act inventory.

**COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT (CERCLA):**

Reportable Quantity - Not established for components of this product.

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA Title III) –**

Section 311 Hazard Categories:

Acute Health:	Yes
Chronic Health:	Yes
Fire:	No
Sudden release of Pressure:	No
Reactive:	No

**Chronic Health:**

Based on long term animal studies, a potential exists for lymphatic toxicity.

**SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA Title III) -**

Section 313: Components of this product subject to reporting: None.

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The information and recommendations contained in this Material Safety Data Sheet have been compiled from sources believed to be reliable and to represent the best opinion on the subject as of the date on this sheet. However, no warranty, guarantee or representation, express or implied, is made by Guardian CSC as to the correctness or sufficiency of this information or the results to be obtained from the use thereof.

If you determine that the data does not meet your needs or that questions remain, consult supplier before you purchase, store, transport or use this product.

Consult a technically trained service person or salesman for use of this product as it specifically pertains to your situation. Seller assumes no responsibility for injury to buyer or to third persons or for damage to any property and buyer assumes all such risks.  
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