

<b>Health</b>	<b>2</b>
<b>Flammability</b>	<b>0</b>
<b>Reactivity</b>	<b>1</b>

<b>Section 1</b>	<b>Identification</b>
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Product Name:	GCS-6102	Company:	Guardian CSC
Product Description:	Water treatment corrosion inhibitor		6000 Susquehanna Plaza Drive
Transport Emergency:	Chemtrec		York, PA 17406
	800-424-9300		800-297-8266
			717-848-2570 Fax

<b>Section 2</b>	<b>Hazard Identification</b>
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Hazard Classification:	Serious Eye Damage, Category 2, Subcategory A Acute Toxicity, Oral, Category 3 Acute Toxicity, Inhalation, Category 1 Oxidizing Solid, Category 3 Specific Target Organ Toxicity, Single Exposure, Category 2 (blood, circulatory system) Specific Target Organ Toxicity, Repeated Exposure, Category 2 (blood) Hazardous to the Aquatic Environment, Acute Hazard, Category 1 Hazardous to the Aquatic Environment, Long-Term Hazard, Category 1
Signal Word:	<b>Danger</b>
Hazard Statements:	May intensify fire; oxidizer. Toxic if swallowed. Causes serious eye irritation. Fatal if inhaled. May cause damage to organs (blood, circulatory system). May cause damage to organs (blood) through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.



Precautionary statements	Keep away from heat. Use only outdoors or in a well-ventilated area. Keep/Store away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Do not breathe dust/fume. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wear respiratory protection. Wear protective gloves/eye protection/face protection.
Response:	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Rinse mouth. If eye irritation persists: Get medical advice/attention. In case of fire: Use water for extinction.
Storage:	Store in a well-ventilated place. Keep container tightly closed. Store locked up. See Section 7
Disposal:	Dispose of contents/container in accordance with federal, state, and local regulations.

<b>Section 3</b>	<b>Composition/Information on Ingredients</b>	
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<u>Chemical</u>	<u>CAS Number</u>	<u>Concentration (wt. %)*</u>
Sodium Nitrite	7632-00-0	Proprietary
Sodium Diborate Decahydrate	1303-96-4	Proprietary
Tolyltriazole	29385-43-1	Proprietary
Sodium Metasilicate Anhydrous	6834-92-0	Proprietary
Sodium Carbonate	497-19-8	Proprietary

<b>Section 4</b>	<b>First-Aid Measures</b>	
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Eyes:	Remove contact lenses. Hold eyelids apart. Immediately flush eyes with plenty of low-pressure water for at least 15 minutes. Get immediate medical attention.
Skin:	Immediately flush skin with a large amount of soap and water. Remove contaminated clothing and shoes. If irritation persists, get medical attention.
Ingestion:	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.
Inhalation:	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Call a physician or poison control center immediately.
Notes to Physician:	Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

<b>Section 5</b>	<b>Fire-Fighting Measures</b>	
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As in any fire, wear a self-contained breathing apparatus in pressure-demand MSH/NIOSH (approved or equivalent), and full protective gear. Move container from fire area if possible. Do not scatter spilled material with more water than needed for fire control and dike fire control water for later disposal. Use agents suitable for type of surrounding fire. Avoid breathing hazardous vapors and keep upwind.

Extinguishing Media:	Water.
Unusual Fire and Explosion Hazard:	Material is a strong oxidizing agent. May intensify fire. May combine with various metals (at decomposition) to form further flammable mixtures.
Hazardous combustion products:	Oxides of boron, carbon and nitrogen.

<b>Section 6</b>	<b>Accidental Release Measures</b>	
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<b>Personal precautions, protective equipment and emergency procedures:</b>	Immediately evacuate personnel to safe areas. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep people away from and upwind of spill/leak. Keep upwind. Keep out of low areas. Ventilate closed spaces before entering them. Wear appropriate personal protective equipment.
<b>Methods and materials for containment and cleaning up:</b>	Refer to attached safety data sheets and/or instructions for use. Keep combustibles (wood, paper, oil, etc.) away from spilled material. Should not be released into the environment. This product is miscible in water. This material is a water pollutant and should be prevented from contaminating soil or from entering sewage and drainage systems and bodies of water. Prevent entry into waterways, sewers, basements or confined areas. Stop leak if you can do so without risk. Collect spillage. Clean contaminated surface thoroughly. Sweep up or gather material and place in appropriate container for disposal. After removal flush contaminated area thoroughly with water. Avoid dust formation. Following product recovery, flush area with water. Clean up in accordance with all applicable regulations. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. For waste disposal, see section 13 of the MSDS.
<b>Environmental precautions:</b>	Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

<b>Section 7</b>	<b>Handling and Storage</b>
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Handling:	Take any precaution to avoid mixing with combustibles. Keep away from heat. Minimize dust generation and accumulation. Do not breathe dust. Do not taste or swallow. Avoid contact with eyes. Use only outdoors or in a well-ventilated area. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.
Storage:	Store locked up. Keep away from heat. Store in a well-ventilated place. Keep container tightly closed. Do not store near combustible materials. Keep out of the reach of children. Store in a cool, dry place out of direct sunlight.

<b>Section 8</b>	<b>Exposure Controls/Personal Protection</b>
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<u>Hazardous Components</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV/Other</u>
Sodium Diborate Decahydrate	1303-96-4	N/A	5 mg/m <sup>3</sup> (TWA)

Exposure Controls: Provide local exhaust or general dilution ventilation system. Wear recommended PPE to avoid contact with body parts.



Eye Protection: Wear chemical safety goggles. Have eye wash stations available where eye contact can occur.

Hand Protection: Wear gloves impervious to conditions of use including neoprene, natural rubber, Viton and butyl.

Body Protection: Wear appropriate impervious clothing. Have safety showers available where skin contact can occur.

Respiratory Protection: If it is possible to generate vapors or mists, a NIOSH approved or equivalent respirator is recommended. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilations, a positive pressure, self-contained breathing apparatus is recommended.

General Hygiene Considerations: When using, do not eat, drink or smoke. Avoid contact with eyes. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice.

<b>Section 9</b>	<b>Physical and Chemical Properties</b>
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Appearance:	White, granular solid	Melting point/freezing point:	Not available
Odor:	Slight, characteristic odor	Initial boiling point and boiling range:	Not available
Odor threshold:	Not available	Evaporation rate:	Not available
pH:	Not applicable	Vapor pressure:	Not available
Relative density:	Not available	Vapor density:	Not available
Solubility:	Complete in water	Partition coefficient:	Not available
Flammability:	Not flammable	Auto-ignition temperature:	Not available
Flash point:	None	Decomposition temperature:	Not available
Upper/lower flammability or explosive limits:	None	Viscosity:	Not available

<b>Section 10</b>	<b>Stability and Reactivity</b>
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Stability:	This material is stable under normal temperatures and pressures. Keep in mind that this is a strong oxidizer and it will react with certain chemicals (see below).
Possibility of hazardous reactions:	Hazardous polymerization will not occur.
Conditions to Avoid:	Avoid contact with reducing agents, strong acids and organic materials.
Incompatible Materials:	Strong reducing agents, strong acids and organics.
Hazardous Decomposition Products:	Oxides of boron, carbon and nitrogen.

<b>Section 11</b>	<b>Toxicological Information</b>
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## Health Hazards:

Eye:	Severe irritant to the eyes.
Skin:	May cause moderate irritation to the skin.
Inhalation:	May be toxic if inhaled.
Ingestion:	Toxic if swallowed.

Delayed Effects: None known

Chronic Effects: None known

Carcinogen: No ingredients listed on NTP, IARC, or OSHA

<b>Section 12</b>	<b>Ecological Information</b>
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Components/CAS-No.	Acute Algae Toxicity:	Acute Fish Toxicity:	Toxicity to daphnia and other aquatic invertebrates:
GCS-6102	Product may be toxic to aquatic organisms.	Product may be toxic to aquatic organisms.	LC <sub>50</sub> (48 hr static) – 1.0 mg/L Ceriodaphnia dubia

Mobility: No information available.

Persistence: No information available.

Bioaccumulative Potential: No information available.

Chemical Fate Information: No information available.

Other Information: No other ecological studies have been carried out on this product.

<b>Section 13</b>	<b>Disposal Considerations</b>
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Dispose of in a manner consistent with federal, state, and local regulations.

**Whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved waste facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.**

<b>Section 14</b>	<b>Transport Information</b>
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DOT Shipping Name:	UN 1479, Oxidizing Substances Solid, n.o.s. (Contains Sodium Nitrite), 5.1
DOT Hazard Class:	5.1 – Oxidizer
UN Number:	UN1479
Packing Group:	PGIII, ER-140

**Section 15****Regulatory Information**

Toxic Substances Control Act (TSCA):	All components are listed on the TSCA Inventory of Chemical Substances.
SARA Section 302 Extremely Hazardous Substances:	No components listed.
SARA Section 311 Hazard Class:	Acute Health, Fire Hazard
SARA Section 313 Toxic Chemicals:	No components listed.
CERCLA Hazardous Substance List:	Sodium Nitrite (CAS 7632-00-0)
Clean Water Act:	Hazardous Substance (Sodium Nitrite; CAS 7632-00-0)
FD&C Act:	This product is not approved for use in FDA applications
State Regulations:	Massachusetts RTK – Substance List – Sodium Nitrite (CAS 7632-00-0) New Jersey Worker and Community Right-to-Know Act – Sodium Nitrite (CAS 7632-00-0); 500 lbs Pennsylvania RTK – Hazardous Substances – Sodium Nitrite (CAS 7632-00-0)

**Section 16****Other Information**

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Guardian CSC urges each customer or recipient of this MSDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this MSDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as to the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.

Revised By: Matt Weir

Revised: 09/14/15

**\*\*\*End of SDS\*\*\***