



# Safety Data Sheet

## GCS-6352

Revised: 07/17/15

|                     |   |
|---------------------|---|
| <b>Health</b>       | 1 |
| <b>Flammability</b> | 0 |
| <b>Reactivity</b>   | 0 |

### Section 1 Identification

|                      |                                   |          |                              |
|----------------------|-----------------------------------|----------|------------------------------|
| Product Name:        | GCS-6352                          | Company: | Guardian CSC                 |
| Product Description: | Cooling Water Corrosion Inhibitor |          | 6000 Susquehanna Plaza Drive |
| Transport Emergency: | Chemtrec                          |          | York, PA 17406               |
|                      | 800-424-9300                      |          | 800-297-8266                 |
|                      |                                   |          | 717-848-2570 Fax             |

### Section 2 Hazard Identification

Hazard Classification: Skin Irritation Category 3  
Serious Eye Irritation Category 2, Sub-category 2B

Signal Word: **Warning**

Hazard Statements: Causes eye irritation. Causes mild skin irritation.

Precautionary statements

|             |  |
|-------------|--|
| Prevention: | Wash affected areas thoroughly after handling.<br>Wear protective gloves.<br>Wear safety goggles.<br>Avoid breathing mist/spray.<br>In case of inadequate ventilation, wear respiratory protection.  |
| Response:   | If on skin (or hair): Wash with plenty of water. Specific treatment (see Section 4).<br>Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse.<br>If skin irritation occurs: Get medical advice/attention.<br>If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.<br>Continue rinsing.<br>If eye irritation persists: Get medical advice/attention.<br>If swallowed: Rinse mouth, do NOT induce vomiting!<br>If experiencing respiratory symptoms: Call a doctor |
| Storage:    | See Section 7  |
| Disposal:   | Dispose of contents/container in accordance with federal, state, and local regulations.  |

### Section 3 Composition/Information on Ingredients

| <u>Chemical</u>                            | <u>CAS Number</u> | <u>Concentration (wt. %)</u> |
|--|-------------------|------------------------------|
| Benotriazole                               | 15217-42-2        | <5%                          |
| Tolyltriazole                              | 64665-57-2        | <5%                          |
| Tetrahydro triazole                        | 1307867-84-0      | <5%                          |
| 2-phosphonobutane-1,2,4-tricarboxylic acid | 37971-36-1        | 5 – 10%                      |
| Homopolymer Maleic acid                    | 26099-09-2        | 5 – 10%                      |
| Gluconic Acid                              | 526-95-4          | 1 – 5%                       |
| Phosphinocarboxylic Acid                   | 9003-04-7         | 5 – 10%                      |
| Pyrenetetrasulfonic acid tetrasodium salt  | 6528-53-6         | <1%                          |
| Water                                      | 7732-18-5         | Balance                      |

**Section 4****First-Aid Measures**

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| Eyes:               | Remove contact lenses. Immediately flush with plenty of water for at least 20 minutes, holding eyelids apart to ensure flushing of the entire surface. Washing within one minute is essential to achieve maximum effectiveness. Seek medical attention.                           |
| Skin:               | Immediately flush skin with plenty of soap and water for at least 20 minutes. Remove contaminated clothing and footwear. Wash contaminated clothing before reuse. Get medical attention if irritation develops.   |
| Ingestion:          | If swallowed, DO NOT induce vomiting. Give large amounts of water to drink. Get prompt medical attention. If spontaneous vomiting occurs, keep head below hips to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. |
| Inhalation:         | If inhaled, remove to fresh air. If not breathing, use artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen. Get medical attention.  |
| Notes to Physician: | Note: Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.  |

**Section 5****Fire-Fighting Measures**

Product is a water solution and nonflammable. In a fire, this product may build up pressure and rupture a sealed container; cool exposed containers with water spray. Use self-contained breathing apparatus in confined areas; avoid breathing mist of spray.

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| Extinguishing Media:           | Dry chemical, carbon dioxide, water spray, or foam. For larger fires use water spray, fog, or alcohol foam.  |
| Special Procedures:            | Use self-contained breathing apparatus in confined areas; avoid breathing mist or spray. Full protective clothing and approved self-contained breathing apparatus required for firefighting personnel. |
| Hazardous combustion products: | May produce hazardous fumes or hazardous decomposition products.   |


**Section 6****Accidental Release Measures**

|                     |  |
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| Spill Response:     | Stop leaks. Clean up spill immediately. Build dikes as necessary to contain flow of large spills. Do not allow liquid to enter stream or waterways. For small spills, use an inert material to absorb. Place contaminated materials into containers and store in a safe place to await proper disposal. Wear adequate personal protective clothing and equipment. Caution: use of vinegar or citric acid may generate carbon dioxide gas. Provide adequate ventilation to spill area. Approved breathing apparatus may be necessary. |
| Spill Notification: | Determine if federal, state, and/or local release notification is required.  |

**Section 7****Handling and Storage**

|           |  |
|-----------|--|
| Handling: | Keep container closed. Both open and handle containers with care. Store in a cool, well ventilated place away from incompatible materials. Do NOT pressurize, cut, heat, or weld containers. Empty product containers may contain product residue. Do NOT reuse empty containers without commercial cleaning or reconditioning. Avoid contact with eyes, skin and clothing. Avoid breathing mist or vapors. Wash thoroughly after handling. Keep away from heat and open flame. Keep container closed when not in use. |
| Storage:  | Do not use aluminum, copper or mild steel tanks, pumps or piping with this product. Store in glass, stainless steel, plastic or epoxy lined containers. Store in a cool, dry place away from direct heat. Keep container tightly closed when not in use. Do not store in unlined metal containers. This product has a shelf life of at least six months in unopened containers and when stored within the recommended temperature range.   |

## Section 8 Exposure Controls/Personal Protection

| Chemical                | OSHA PEL   | ACGIH TLV | Other Exposure Limits |
|-------------------------|--|-----------|-----------------------|
| None                    | N/A  | N/A       | N/A                   |
| Exposure Controls:      | Local exhaust ventilation should be provided to control worker exposures and prevent health risk; and as necessary to reduce, prevent and control aerosol generation.  |           |                       |
| PPE:                    |   |           |                       |
| 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.   |           |                       |
| Body Protection:        | Wear appropriate impervious clothing. Have safety showers available where skin contact can occur.  |           |                       |
| Respiratory Protection: | Where concentrations in air may exceed limits given in this section or Section 2 and engineering, work practice or other means of exposure reduction are not adequate, NIOSH/MSHA approved respirators may be necessary to prevent overexposure by inhalation (see 29 CFR 1910.134). |           |                       |

## Section 9 Physical and Chemical Properties

|   |                       |  |                    |
|---|-----------------------|--|--------------------|
| Appearance:                                   | Amber to brown liquid | Melting point/freezing point:            | Not available      |
| Odor:   | No appreciable odor   | Initial boiling point and boiling range: | >212°F             |
| Odor threshold:                               | Not available         | Evaporation rate:                        | <1.0 (water = 1.0) |
| pH:   | <3.0 (as is)          | Vapor pressure:                          | Not available      |
| Relative density:                             | 1.17 (@ 25°C)         | Vapor density:                           | Not available      |
| Solubility:                                   | Completely soluble    | Partition coefficient:                   | Not available      |
| Flammability:                                 | Not flammable         | Auto-ignition temperature:               | Not applicable     |
| Flash point:                                  | Not applicable        | Decomposition temperature:               | Not available      |
| Upper/lower flammability or explosive limits: | Not applicable        | Viscosity:                               | Not available      |

## Section 10 Stability and Reactivity

|                                     |  |
|-------------------------------------|--|
| Stability:                          | This material is stable under normal temperatures and pressures.   |
| Possibility of hazardous reactions: | Not anticipated under normal or recommended handling and storage conditions.   |
| Conditions to Avoid:                | None known.  |
| Incompatible Materials:             | Strong bases, strong reducing agents and strong oxidizing agents.  |
| Hazardous Decomposition Products:   | Thermal decomposition may release carbon monoxide, carbon dioxide and miscellaneous unknowns. Wear proper personal protective equipment when responding to a fire that may involve this product. |

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

|             |  |
|-------------|--|
| Eye:        | Direct eye contact may cause irritation, redness, swelling and pain on prolonged contact.  |
| Skin:       | May cause skin irritation, especially on prolonged contact.  |
| Inhalation: | Inhalation of mist or spray may irritate respiratory tract.  |
| Ingestion:  | May be harmful if swallowed. May cause irritation of the mouth throat and stomach. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. |

## Delayed Effects:

None known

## Chronic Effects:

May aggravate existing skin, eye, and lung conditions.

## Carcinogen:

No ingredients listed on NTP, IARC, or OSHA

## Mutagenicity/Genotoxicity:

No mutagenicity or genotoxicity studies have been carried out with this product.

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|-------------------|-------------------------------|
| <b>Section 12</b> | <b>Ecological Information</b> |
|-------------------|-------------------------------|

| Components/CAS-No. | Acute Algae Toxicity:     | Acute Fish Toxicity:      | Toxicity to daphnia and other aquatic invertebrates: |
|--------------------|---------------------------|---------------------------|--|
| GCS-6352           | No information available. | No information available. | No information available.                            |

## Mobility:

No information available.

## Persistence:

No information available.

## Bioaccumulative Potential:

The product is not expected to bioaccumulate.

## 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> |
|-------------------|--------------------------------|

DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND, OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS, STATIC ELECTRICITY, OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. Empty drums should be completely drained, properly bunged and promptly returned to a drum reconditioner, or properly disposed of. Discarded product, as sold, should not be considered a RCRA Hazardous Waste. Dispose of product in an approved chemical waste landfill or incinerate in accordance with applicable Federal, state and local regulations. Since the emptied container retains product residue, all labeled hazard precautions must be observed. Do NOT mix with other chemical wastes. Do not put solutions containing this product into sewer systems. Do not re-use empty containers.

|                   |                              |
|-------------------|------------------------------|
| <b>Section 14</b> | <b>Transport Information</b> |
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|                    |  |
|--------------------|--|
| DOT Shipping Name: | This product is not DOT regulated when shipped by road or railway. |
| DOT Hazard Class:  | N/A  |
| UN Number:         | N/A  |
| Packing Group:     | N/A  |

|                   |                               |
|-------------------|-------------------------------|
| <b>Section 15</b> | <b>Regulatory Information</b> |
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|---|--|
| Toxic Substances Control Act (TSCA):              | All components are listed on the TSCA Inventory of Chemical Substances or are exempt from TSCA Inventory requirements. |
| SARA Title III/CERCLA Reportable Quantities (RQ): | N/A  |
| SARA Section 302 Extremely Hazardous Substances:  | No components listed.  |
| SARA Section 311/312 Hazard Class:                | SARA Acute Health Hazard   |
| SARA Section 313 Toxic Chemicals:                 | No components listed.  |

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

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Revised By: Matt Weir

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**\*\*\*END OF MSDS\*\*\***