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**Material Safety Data Sheet
 GCS-3010**

3	Health
1	Flammability
1	Reactivity
E	Protective Equipment

Identity: GCS-3010

Section I - Manufacturer's Information

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

Emergency Phone: CHEMTREC
 Information: 1-800-424-9300
 Updated: 1/1/14
 DOT ID: UN 1479
 Chemical Family: Water Treatment
 Hazard Class: None

Section II - Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%</u>
1-Bromo-3-chloro-5, 5-dimethylhydantoin	16079-88-2	N/E*	N/E*	Major
EPA Registration Number 88714-4	LD50 = 1.39 g/kg	*N/E=Not Established		

Section III - Physical/Chemical Characteristics

Boiling Point:	N/A	Bulk Density:	60 lb/ft ³
Vapor Pressure:	N/A	Melting Point:	N/A
Vapor Density:	N/A	Evaporation Rate (H ₂ O=1):	N/A
Solubility In Water:	Complete with fluid erosion.	pH:	N/A
Appearance And Odor:	White tablet, with slight halogen odor		

Section IV - Fire and Explosion Hazard Data

Flash Point: None Flammable Limits LEL: N/A UEL: N/A
 Method Used: N/A

Extinguishing Media:

CO2, Water, Foam, Dry chemical

Special Fire Fighting Procedures:

Protect fire fighters from physical contact with product. The product is not anticipated to cause problems during a fire, as it cannot burn.

Unusual Fire and Explosion Hazards:

See Above (None Anticipated)

Section V - Reactivity Data

Stability:	Stable
Conditions to Avoid:	N/A
Incompatibility (Materials to Avoid):	None
Hazardous Decomposition or Byproducts:	None
Hazardous Polymerization:	May not occur
Personnel Conditions to Avoid:	Extended contact with skin or ingestion

Section VI - Health Hazard Data

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:

Irritating to the eyes produces reversible effects in the form of erythema, chemosis and discharge. If ingested **Do not induce vomiting**. Feed bread soaked in milk, followed by olive or cooking oil.

Medical Conditions General Aggravated by Exposure:

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: Careful gastric lavage is required. Wash mouth and other contacted parts with water. **Never give any Substance to an unconscious person.** If conscious, **DO NOT** induce vomiting. Feed bread soaked in milk, followed by olive or cooking oil. **CALL A DOCTOR.**

DO NOT INDUCE VOMITING:

1) If the victim is in convulsions, 2) the victim has symptoms of severe pain, burning sensation in the mouth or throat, is already vomiting or has ingested alkali, acid or petroleum distillate.

Section VII - Precautions for Safe Handling and Use

Steps To Be Taken In Case Material Is Released Or Spilled:

Sweep up powder and flush the area with large amounts of water. Re-drum material in a clean dry plastic container.

Waste Disposal Method:

Since Federal, State and Local laws vary greatly from situation to situation, no one preferred waste disposal method can be given. One however must keep in mind that all of these type products are ultimately destined to go "down the drain" since they are cleaning compounds of one sort or another. Generally in highly diluted or completely neutralized state they present no particular environmental hazard, they can be treated as ordinary waste, which is piped to a sanitary sewer for proper waste treatment.

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.

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 foodstuffs. 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 or goggles. 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.

Section VIII - Control Measures

Respiratory Protection (Specific Type):

Recommend use of OSHA/NIOSH approved dust mask type respirator with N95, N99, N100, R95, R99, R100, P95, P99 or P100 rating. OSHA 29CFR 1910.134, ANSI Z88.2

Ventilation:

Local Exhaust:	NA	Recommended:	NA	Special:	NA
Mechanical (General):	Usually sufficient	Other:	NA		

Protective Gloves:

PVC-coated, rubber or similar type is recommended for repeated contact with tablets or powder.

Eye Protection:

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

Other Protective Clothing or Equipment:

Wear chemical protective clothing over 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

Section IX – Ecotoxicity Information

The following ecotoxicity data is available for GCS-3010:

Daphnia magna LC₅₀ (48 hours) – 0.75 mg/L

Section X - Documentary Information

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 following message will appear in this section above.

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

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