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**Material Safety Data Sheet
GCS-3215**

3	Health
0	Flammability
0	Reactivity
D	Protective Equipment

US EPA REGISTRATION # 707-133- 39637

Identity: GCS-3215

Section I - Manufacturer's Information

GUARDIAN CSC
6000 Susquehanna Plaza Dr.
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(717) 848-2540
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Emergency Phone: CHEMTREC
Information: 1-800-424-9300
Updated: 1/1/14
DOT ID: UN3265 PG-II
Chemical Family: Water Treatment
Hazard Class: Corrosive

Chemical Name: 5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE 2-METHYL-4-ISOTHIAZOLIN-3-ONE
DOT Hazard Class: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE) 8 UN 3265 II

Section II - Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%</u>
5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE	26172-55-4	N/A	N/A	Some
2-METHYL-4-ISOTHIAZOLIN-3-ONE	2682-20-4	N/A	N/A	Trace

Section III - Physical/Chemical Characteristics

Boiling Point:	N/A	Specific Gravity (H ₂ O=1):	1.03
Vapor Pressure:	17 mm Hg	Melting Point:	27°F
Vapor Density:	0.62	Evaporation Rate (H ₂ O=1):	N/A
Solubility In Water:	100%	pH:	3.0
Appearance And Odor:	Pale yellow to green color, slight 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 Combustible, Wear Breathing Apparatus (MSHA/NIOSH-Approved, Pressure Demand, Self-Contained or Equivalent) and full protective clothing. Use Water spray to cool fire-exposed containers. CONTAIN RUN-OFF.

Unusual Hazards:

Avoid exposure to fumes and vapors from a fire. This product can possibly evolve sulfur dioxide and hydrogen chloride and oxides of nitrogen.

Section V - Reactivity Data

Stability:	Stable
Conditions to Avoid:	N/A
Incompatibility (Materials to Avoid):	Oxidizing Agents, Reducing Agents, Amines, Mercaptans
Hazardous Decomposition or Byproducts:	Hydrogen Chloride and Oxides of Sulfur
Hazardous Polymerization:	May not occur
Personnel Conditions to Avoid:	Contact with skin, inhalation or ingestion

Section VI - Health Hazard Data

Route(s) of Entry:

Inhalation: Severe Skin: Severe Ingestion: Severe

Health Hazards (Acute and Chronic):

Threshold Limit Value: Not Available **Acute:** Corrosive **Chronic:** None

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

National Toxicology Program: NO

Signs and Symptoms of Exposure:

Harmful if inhaled. Corrosive to eyes. Causes irreversible eye damage. Corrosive to skin. Causes skin burns. These effects may be delayed for hours. Can cause allergic dermatitis.

Medical Conditions Generally Aggravated By Exposure:

Exposure to GCS-3215 may cause allergic contact dermatitis. 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. This is an acidic irritant, and has been seen to effect the nervous system, liver, and kidney as a toxin when over exposed to material to a limited and varying degree.

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, and remove contaminated clothing. Seek medical attention if irritation occurs.

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. Give one or two glasses of water. **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.

Section VII - Precautions for Safe Handling and Use

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

Control Steps: Dike spills for recovery with absorbent materials. Do not flush to storm or sanitary sewer. Wear protective clothing, splash proof goggles and impervious overshoes. Remove contaminated clothing promptly. Launder before reuse. Wash skin with soap and water. Keep spills out of municipal sewers and open bodies of water. Dike and absorb spill with inert material (dry earth, sand). Shovel all contaminated solids-diking material, absorbent and soil into corrosive proof, DOT approved containers. Seal drums.

Waste Disposal Method:

For Discarding, This is a Hazardous waste: RCRA No. D002
Reportable Quantity: 100 LBS. [CERCLA (Superfund) Sec. 103].

Land fill contaminated solids in sealed drums in accordance with all applicable local, state and federal regulations.

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 (32°F). Containers should be tightly closed when not in use. 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.

Laundry all clothing before reuse. Discard all contaminated gloves, boots, and other clothing that can not be properly cleaned.

Section VIII - Control Measures

Respiratory Protection (Specific Type):

Wear OSHA/NIOSH approved respirator suitable for concentrations encountered where exposure limits are exceeded.

Ventilation:

Local Exhaust:	N/A	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:

Use splash proof goggles and face shield (ANSI Z87.1 or equivalent). Eye wash fountains and safety showers are recommended 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

Section IX - 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 message...

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

.... will appear in this section above.

Section X – Ecotoxicity Information

The following ecotoxicity data is available for GCS-3215:

Aquatic Toxicity:

Daphnia magna LC₅₀ (48 hours) – 0.16 mg/L

Section XI - REGULATORY INFORMATION

DOT: Corrosive Liquids, Acidic, Organic, N.O.S. (5-CHLORO-2-METHYL-4-ISOTHIAZOLIN-3-ONE), 8, UN 3265, II

HAZARD CLASS: Corrosive **UN/NA Number:** UN 3265

SARA TITLE III REPORTING SECTION 311: NA **312:** X **313:** NA

CERCLA REPORTABLE QUANTITY OF PRODUCT: 100 LBS. OR 11.6 GALLONS

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, and 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.

Date Prepared: 04/07/14
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