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**Material Safety Data Sheet
GCS-3550**

3	Health
1	Flammability
0	Reactivity
H	Protective Equipment

Identity: GCS-3550

Section I - Manufacturer's Information

GUARDIAN CSC
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Emergency Phone: CHEMTREC
Information: 1-800-424-9300
Updated: 1/1/15
DOT ID: UN 3265
Chemical Family: Biocide
Hazard Class: Corrosive

Chemical Name: GLUTARALDHYDE (50% Active)
EPA Registration No. 33753-31-039637

Section II - Hazardous Ingredients/Identity Information

<u>Hazardous Components</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%</u>
Glutaraldehyde	111-30-8	0.2 ppm	0.05 ppm	Major

This product is registered under FIFRA by the U.S. EPA and its components are not required to be listed on the U.S. TSCA inventory.

Section III - Physical/Chemical Characteristics

Boiling Point:	>100°C	Specific Gravity (H ₂ O=1):	1.13
Vapor Pressure:	0.2	Freezing Point:	-20°C
Vapor Density:	1.05	Evaporation Rate (H ₂ O=1):	N/A
Solubility In Water:	100%	pH:	~3.5
Appearance And Odor:	Clear, colorless liquid with characteristic odor		

Section IV - Fire and Explosion Hazard Data

Flash Point:	>100°C	Flammable Limits LEL:	N/A	UEL:	N/A
Method Used:	N/A	Auto Ignition Temp:	225°C		

Extinguishing Media/Special Procedures:

Water, CO₂, dry chemical, foam

Special Fire Fighting Procedures:

Water may be used to keep fire-exposed containers cool until fire is out. Protect fire fighters from physical contact with product. Do not direct a solid stream of water into hot burning pools. Use self-contained breathing apparatus and turn-out gear.

Unusual Hazards:

Heating causes generation of toxic gases and vapors.

Section V - Reactivity Data

Stability:	Stable
Conditions to Avoid:	High temperatures
Incompatibility (Materials to Avoid):	Amines, strong acids and strong bases.
Hazardous Decomposition or Byproducts:	Burning may produce carbon monoxide and/or carbon dioxide.
Hazardous Polymerization:	May not occur
Personnel Conditions to Avoid:	Contact with skin, ingestion or inhalation

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

Inhalation: Moderate Skin: Severe Ingestion: Severe

Health Hazards (Acute and Chronic):

This product is harmful if swallowed or absorbed through skin. This product is extremely corrosive to the eyes and is a chronic skin irritant. 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:

Product may be harmful if swallowed or absorbed through skin. Do not taste. Vapor is irritating to respiratory tract. Contact with eyes will cause severe corneal injury. Skin contact will cause irritation.

Medical Conditions Generally Aggravated By Exposure:

Avoid inhalation of vapors. Inhalation may aggravate asthma and inflammatory or fibrotic pulmonary disease.

Emergency and First Aid Procedures:

EYES: Flush eyes with water for at least 15 minutes. Lift upper and lower eyelids occasionally. Seek medical attention immediately. Do not remove contact lenses.

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: Never give any substance to an unconscious person. If conscious, DO NOT induce vomiting. Do not give anything to drink. **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:

Dike spills for recovery with absorbent materials. Do not flush product to storm sewer. Large spills can be sucked up with a vacuum truck for further treatment. Shovel all spilled and neutralized material in place into suitable container for disposal in accordance with Federal, State, and Local laws. This product is toxic to fish, avoid discharge to natural waters. See Section X for more regulatory information.

Waste Disposal Method:

Incinerate or dispose of as a pesticide waste in accordance with all federal, state and local regulations. Observe RCRA Act requirements for disposal.

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 closed tightly 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 protective clothing. 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 can not be properly cleaned.

Section VIII - Control Measures

Respiratory Protection (Specific Type):

If vapors or mists are generated, wear a NIOSH approved organic vapor/mist respirator or and air supplied respirator as appropriate. Recommend use of organic vapor respirator with N95, N99, N100, R95, R99, R100, P95, P99 or P100 cartridge. OSHA 29CFR 1910.134, ANSI Z88.2

Ventilation:

Local Exhaust:	Preferred	Recommended:	Yes	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 and safety showers 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.

Other: Do not heat this product above 50°C.

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-3550:

Aquatic Toxicity:

Daphnia magna LC₅₀ (48 hours) – 5.75 mg/L

Section XI - Regulatory Information

DOT Shipping Name: Corrosive Liquids, Acidic, Organic, N.O.S. (Glutaraldehyde), 8, UN 3265, PGIII

Hazard Classification: Corrosive

UN/NA Number: UN 3265

DOT Label Required: Corrosive

SARA Title III Reporting: **Section 311:** X **Section 312:** X **Section 313:** N/A

SARA 313 Reportable Product: N/A

SARA TPQ: N/A

CERCLA Reportable Quantity of Product: N/A

Section XII: Toxicology

Oral LD-50 in rats is 1000mg/kg (active Tris Nitro basis). Primary route of exposure is skin contact.

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.

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