



6000 Susquehanna Plaza Drive
York, PA 17406
1-800 297- 8266
(717) 848-2570 FAX

Material Safety Data Sheet
GCS-6011-HFC

1	Health
0	Flammability
0	Reactivity
B	Protective Equipment

Identity: GCS-6011-HFC

Section I - Manufacturer's Information

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

Emergency Phone: CHEMTREC
Information: 1-800-424-9300
Updated: 01/05/15
DOT ID: 00000
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>
Hydroxyethylidene	2809-21-4	N/A	N/A	Minor
Diphosphonic Acid				
Gluconic Acid	526-95-4	N/A	N/A	Some

Section III - Physical/Chemical Characteristics

Boiling Point: > 212° F Specific Gravity (H2O=1): 1.22
Vapor Pressure: N/A Melting Point: N/A
Vapor Density: N/A Evaporation Rate (H2O=1): <1
Freeze Point: 23°F
Solubility In Water: 100% pH: >10.0
Appearance And Odor: Clear liquid, negligible 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 (Not Applicable)

Special Fire Fighting Procedures:

Protect fire fighters from physical contact with product. Product is a material that will not be harmful during a fire. This product may form HCl, wear a self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

See Above (None Anticipated)

Section V - Reactivity Data

Stability:	Stable
Conditions to Avoid:	N/A
Incompatibility (Materials to Avoid):	Strong acids, Aluminum
Hazardous Decomposition or Byproducts:	CO, CO ₂ , unknowns
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: Acute Ingestion: Acute

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:

Immediate contact may cause burning of the skin, eyes, and mucous membranes. Exposure to material can be corrosive to all body tissue.

Medical Conditions General Aggravated By Exposure:

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 alkali 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, 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: Wash mouth and other contacted parts with water. Never give any substance to an unconscious person. Drink milk to pacify system. **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:

Large spills can be sucked up with a vacuum truck for further treatment. Small spills should be absorbed with soil, clay or absorbent, place in recovery drums. Refer to CERCLA and disposed of in compliance with federal, state and local regulations.

Waste Disposal Method:

Since Federal, State, and Local laws vary greatly from situation to situation, and since these materials are mixtures, 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 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 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):

Usually not needed.

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:

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 – Ecological Information:

The following ecotoxicity data is available for GCS-6011-HFC:

Ceriodaphnia dubia LC₅₀ (48 hours) – >2400 mg/L

Section X - Documentary Information

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 *****

REGULATORY INFORMATION:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1019.1200:

Based on our hazard evaluation, the following ingredients in this product are hazardous and the reasons for this hazardous status are as follows:

NO HAZARDOUS INGREDIENTS

 The information presented herein has been compiled from sources considered to be dependable and is accurate to the best of our ability without extensive research beyond our understanding or economical feasibility. Seller makes no warranty whatsoever, expressed, implied, or of merchantability of the product or of results obtained from this report.

If you determine that the data does not meet your needs or that questions remain, consult supplier before you purchase, store, transport, or use this product.

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