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**Material Safety Data Sheet
GCS-5708**

2	Health
1	Flammability
1	Reactivity
D	Protective Equipment

Identity: GCS-5708

Section I – Chemical Product and Company Identification:

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: UN3267
Chemical Family: Water Treatment
Hazard Class: Flammable

Section II – Composition and Information on Ingredients:

<u>Hazardous Components</u>	<u>CAS</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>%</u>
Diethylaminoethanol	100-37-8	10 mg/m ³ (skin)	2 mg/m ³ (skin)	20-35
Cyclohexylamine	108-91-8	10 ppm	10 ppm	15-30

Section III – Hazards Identification:

Danger: This product is corrosive to skin. It can be absorbed by skin. It is a potential skin sensitizer. It is corrosive to the eyes. Product vapors, gases, mists and/or aerosols cause irritation to the upper respiratory tract. Prolonged exposure to this product may cause dizziness and headache.

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:

Primary route of exposure; Toxic; Corrosive to skin. Absorbed by skin. Potential skin sensitizer.

ACUTE EYE EFFECTS:

Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:

Primary route of exposure; Toxic; Vapors, gases, mists and/or aerosols cause irritation to the upper respiratory tract. Prolonged exposure may cause dizziness and headache.

INGESTION EFFECTS:

Toxic;
May cause severe irritation or burning of mouth, throat, and gastrointestinal tract with severe chest and abdominal pain, nausea, vomiting, diarrhea, lethargy and collapse. Possible death when ingested in very large doses.

TARGET ORGANS:

Prolonged or repeated exposures may cause primary irritant dermatitis, tissue necrosis, and/or toxicity to the nervous system.

MEDICAL CONDITIONS AGGRAVATED:

Asthma, allergies, skin disorders, and chronic respiratory disease.

SYMPTOMS OF EXPOSURE:

Inhalation may cause lightheadedness, slurred speech, nausea, and/or vomiting (pulmonary edema may result). Skin contact can cause severe irritation or burns.

Carcinogenicity:

NTP: None Known IARC Monographs: None Known OSHA: None

Section IV – First Aid Measures:

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. 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 V – Firefighting Measures:

Flash Point: 336° F Flammable Limits LEL: N/A UEL: N/A
Method Used: N/A

Extinguishing Media:

Alcohol type, Foam, Dry chemical

Special Fire Fighting Procedures:

Protect fire fighters from physical contact with product. Do not direct a solid stream of water into hot burning pools. Use protective clothing, eye protection, and self-contained breathing apparatus.

Unusual Fire and Explosion Hazards:

This product is corrosive to skin.

Section VI – Accidental Release Measures:

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 neutralized with dilute inorganic acids like nitric, sulfuric, phosphoric, or hydrochloric acids. Phosphoric acid or dilute acetic acid (vinegar) is preferred. Shovel all spilled and neutralized material in place into suitable container for disposal in accordance with Federal, State, and Local laws.

Section VII - Precautions for Safe Handling and Use

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. This product should be stored 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 – Exposure Controls and Personal Protection:

Respiratory Protection (Specific Type):

A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA’S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR’S USE. USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.

If air-purifying respirator use is appropriate, use a respirator with organic vapor cartridges and dust/mist pre-filters.

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:

A face shield and safety goggles are always recommended, as are safety showers and eye wash fountains in all processing areas.

Other Protective Clothing or Equipment:

Wear chemical resistant protective clothing when handling the product. Wear chemical resistant 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 – Physical and Chemical Properties:

Boiling Point: >212° F Specific Gravity (H2O=1): 0.97
Vapor Pressure: N/A Melting Point: N/A
Vapor Density: N/A Evaporation Rate (H2O=1): <1.00
VOC: 50%
Solubility In Water: Complete pH: 10.5 – 11.5
Appearance And Odor: Clear to straw liquid, strong amine odor

Section X – Stability and Reactivity

Stability:	Stable under normal storage conditions
Conditions to Avoid:	Sparks, open flames, high temperatures
Incompatibility (Materials to Avoid):	Strong acids
Hazardous Decomposition or Byproducts:	Nitrogen Oxides, Carbon Monoxide, Carbon Dioxide
Hazardous Polymerization:	Will not occur
Personnel Conditions to Avoid:	Extended contact with skin or inhalation

Section XI – Toxicological Information:

Oral LD ₅₀ (rat): (estimated value)	350 mg/kg
Dermal LD ₅₀ (rabbit): (estimated value)	550 mg/kg
Skin Irritation Score RABBIT:	>5.0 (NOTE: - Based on similar product; EPA# I: corrosive; DOT corrosive: 60 minutes, not 3 min.)
Eye Irritation Score RABBIT:	Corrosive (NOTE: - 15% cyclohexylamine score: 101, +/- rinsing, constant irritation, non-reversible)

Section XII – Ecological Information:

The following ecotoxicity data is available for GCS-5708:

Ceriodaphnia dubia LC₅₀ (48 hours) – 176 mg/L

Section XIII – Disposal Considerations:

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.

Section XIV - Transport Information

DOT HAZARD: Corrosive to skin, Combustible
PROPER SHIPPING NAME: AMINES, LIQUID, CORROSIVE,
FLAMMABLE, N.O.S. (CYCLOHEXYLAMINE,
DIETHYLAMINOETHANOL) 8(3), UN 2734,
PG II

DOT Emergency Response Guide #: 132

Note: Some containers may be DOT exempt, please check BOL for exact container classification

Section XV – Regulatory Information

TSCA:

All components of this product are listed in the TSCA inventory.

CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):

3,541 gallons due to CYCLOHEXYLAMINE;

FOOD AND DRUG ADMINISTRATION:

ALL ingredients in this product are authorized in 21CFR173.310 for use as boiler water additives where the steam may contact food.

SARA SECTION 312 HAZARD CLASS:

Immediate (acute); Delayed (Chronic); Fire

SARA SECTION 302 CHEMICALS:

<u>CAS#</u>	<u>CHEMICAL NAME</u>
108-91-8	CYCLOHEXYLAMINE

SARA SECTION 313 CHEMICALS:

No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT
(PROPOSITION 65):**

This product contains one or more ingredients known to the state of California to cause cancer.

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

Section XIV - Other 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.

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