

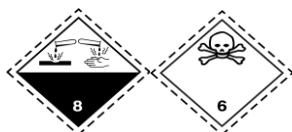
**SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION**

PRODUCT NAME: **Cetylcode-G**  
CHEMICAL NAME: Glutaraldehyde, 50% Aqueous Solution  
U.N. NUMBER: UN2922  
U.N. DANGEROUS GOODS CLASS: Corrosive liquid, Toxic, n.o.s. (Contains Glutaraldehyde 50%) Class 8 (6.1) PGII  
SUPPLIER/MANUFACTURER'S NAME: **Cetylite Industries, Inc.**  
ADDRESS: 9051 River Road, Pennsauken, NJ 08110 USA  
EMERGENCY PHONE: (800) 257-7740  
BUSINESS PHONE: (800) 257-7740 or (856) 665-6111  
FAX NUMBER: (856) 665-5408  
DATE OF PREPARATION: June 3, 2013  
DATE OF LAST REVISION: New

**SECTION 2 - HAZARDS IDENTIFICATION**

**EMERGENCY OVERVIEW:** This product is a transparent green liquid with a floral odor. Corrosive: May cause irreversible eye damage. Causes burns. Harmful if inhaled. May be fatal if swallowed. Harmful if absorbed through skin. Prolonged or repeated skin contact may cause allergic skin reaction in some individuals. Aspiration hazard. Can enter lungs and cause damage. Exposure to mist/vapor may cause respiratory irritation. This product is a non-flammable liquid.  
The Environmental effects of this product have not been investigated. Release of this product is anticipated to have adverse effects in the aquatic environment.

## US DOT SYMBOLS



## CANADA (WHMIS) SYMBOLS



## EUROPEAN and (GHS) Hazard Symbols

Signal Word: **Danger!****EU LABELING AND CLASSIFICATION:**

Classification of the substance or mixture according to Regulation (EC) No1272/2008 Annex 1

EC# 203-856-5 Annex I Index# 605-022-00-X

EC# 231-791-2 this substance are not classified in the Annex I of Directive 67/548/EEC

Proprietary Ingredient has no information available

**Component(s) Contributing to Classification(s)**

Glutaraldehyde 50%

**GHS Hazard Classification(s):**

Acute Toxicity Inhalation Category 3

Acute Oral Toxicity Category 3

Skin Corrosion/Irritation Category 1B

Respiratory Sensitizer Category 1

Skin Sensitizer Category 1

Acute Aquatic Toxicity Category 1

**Hazard Statement(s):**

H331: Toxic if inhaled

H301: Toxic if swallowed

H314: Causes severe skin burns and eye damage

H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317: May cause allergic skin reaction

H400: Very toxic to aquatic life

**Precautionary Statement(s):**

P261: Avoid breathing mist/vapors/spray

P264: Wash hands thoroughly after handling

P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

**EU HAZARD CLASSIFICATION PER DIRECTIVE 1999/45/EC:**

[T] Toxic, [C] Corrosive, [N] Dangerous to the Environment

**Risk Phrases:**

R23/25: Toxic by inhalation and if swallowed  
R34: Causes burns  
R42/43: May cause sensitization by inhalation and skin contact  
R50: Very toxic to aquatic organisms

**Safety Phrases:**

S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S36/37: Wear suitable protective clothing and gloves.  
S46: If swallowed, seek medical advice immediately and show label  
S61: Avoid release to the environment

**HEALTH HAZARDS OR RISKS FROM EXPOSURE:**

**SYMPTOMS OF OVEREXPOSURE BY ROUTE OF EXPOSURE:** The most significant routes of overexposure for this product are by contact with skin or eyes, ingestion or inhalation. The symptoms of overexposure are described in the following paragraphs.

**INHALATION:** Inhalation of vapors may severe irritation of the upper respiratory system. Vapor from heated may cause serious adverse effects including death. May cause allergic reaction.

**CONTACT WITH SKIN or EYES:** Brief contact with skin may cause skin irritation with local redness. Prolonged contact may cause severe skin burns. May be fatal if absorbed through skin. Skin contact may cause allergic skin reaction. Eye contact may result in severe irritation with corneal injury which may result in permanent impairment of vision.

**INGESTION:** Swallowing may result in irritation or burns of the mouth, throat and gastrointestinal system. May be fatal if swallowed. Aspiration hazard: Aspiration into the lungs may occur during ingestion or vomiting, causing tissue damage or lung injury.

**CHRONIC:** Repeated skin contact may result in absorption of amounts which could cause death.

**TARGET ORGANS:** **Acute:** Skin, eyes, respiratory tract      **Chronic:** Skin

**SECTION 3 - COMPOSITION and INFORMATION ON INGREDIENTS**

HAZARDOUS INGREDIENTS:	CAS #	EINECS #	ICSC #	WT %	HAZARD CLASSIFICATION; RISK PHRASES
Glutaraldehyde 50%	111-30-8	203-856-5	0352	<50%	HAZARD CLASSIFICATION: [T] Toxic, [C] Corrosive, [N] Dangerous to the Environment RISK PHRASES: R23/25, R34, R42/43, R50
Water	7732-18-5	231-791-2	Not Listed	<50%	HAZARD CLASSIFICATION: None RISK PHRASES: None
Green Floral Fragrance	Proprietary	Proprietary	Not Listed	<5%	HAZARD CLASSIFICATION: None Known RISK PHRASES: None Known
Balance of other ingredients are non-hazardous or less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

**NOTE:** ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives, Latin America, South America and the Japanese Industrial Standard JIS Z 7250: 2000.

**SECTION 4 - FIRST-AID MEASURES**

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

**EYE CONTACT:** If product enters the eyes, open eyes while under gentle running water for at least 15 minutes. Remove contact lenses if present. Seek medical attention.

**SKIN CONTACT:** Wash skin thoroughly after handling. Seek medical attention. Remove contaminated clothing. Launder before re-use.

**INHALATION:** If breathing becomes difficult, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Seek medical attention if breathing difficulty continues.

**INGESTION:** If product is swallowed, call physician or poison control center for most current information. If professional advice is not available, do not induce vomiting. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or who cannot swallow. Seek medical advice. Take a copy of the label and/or MSDS with the victim to the health professional.



**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:** Pre-existing skin, or respiratory problems may be aggravated by prolonged exposure to this product.

**RECOMMENDATIONS TO PHYSICIANS:** Treat symptoms and reduce over-exposure.

## SECTION 5 - FIRE-FIGHTING MEASURES

**FLASH POINT:**

**AUTOIGNITION TEMPERATURE:**

**FLAMMABLE LIMITS (in air by volume, %):**

**FIRE EXTINGUISHING MATERIALS:**

**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Explosion Sensitivity to Mechanical Impact:

Explosion Sensitivity to Static Discharge:

**SPECIAL FIRE-FIGHTING PROCEDURES:**

Non-Flammable

Not Applicable

Lower (LEL): NA Upper (UEL): NA

Dry chemical, foam, carbon dioxide or water fog.

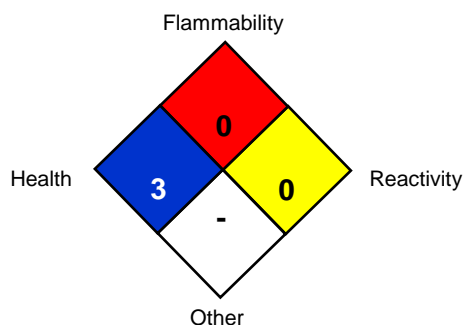
Under fire conditions some components may decompose. The smoke may contain unidentified toxic and/or irritating compounds. The material will not burn until the water has evaporated.

No

No

Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

### NFPA RATING SYSTEM



### HMIS RATING SYSTEM

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)			3
FLAMMABILITY HAZARD (RED)			0
PHYSICAL HAZARD (YELLOW)			0
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	See Sect 8		See Sect 8
For Routine Industrial Use and Handling Applications			

**Hazard Scale:** 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe \* = Chronic hazard

## SECTION 6 - ACCIDENTAL RELEASE MEASURES

**SPILL AND LEAK RESPONSE:** Personnel should be trained for spill response operations.

**SPILLS:** Contain spill if safe to do so. Eliminate all sources of ignition. Always wear proper PPE. Prevent entry into drains, sewers, and other waterways. Soak up with an absorbent material and place in an appropriate closed container for disposal. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations).

## SECTION 7 - HANDLING and STORAGE

**WORK PRACTICES AND HYGIENE PRACTICES:** As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Avoid breathing vapors/mists/sprays generated by this product. Use in a well-ventilated location. Remove contaminated clothing immediately.

**STORAGE AND HANDLING PRACTICES:** Containers of this product must be properly labeled. Store containers in a cool, dry location away from heat and sources of ignition. Keep container tightly closed when not in use. Store away from incompatible materials. Do not store in: aluminum, carbon steel, copper, mild steel or iron containers.

**SECTION 8 - EXPOSURE CONTROLS - PERSONAL PROTECTION****EXPOSURE LIMITS/GUIDELINES:**

Chemical Name	CAS#	ACGIH TWA	OSHA TWA
Glutaraldehyde 50%	111-30-8	0.2 mg/m <sup>3</sup> Ceiling	0.8 mg/m <sup>3</sup> Ceiling
Water	7732-18-5	Not Listed	Not Listed
Green Floral Fragrance	Proprietary	Not Listed	Not Listed

Currently, International exposure limits are not established for the components of this product. Please check with competent authority in each country for the most recent limits in place.

**VENTILATION AND ENGINEERING CONTROLS:** Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Use local exhaust ventilation to control airborne mist/vapor/dust. Ensure eyewash/safety shower stations are available near areas where this product is used.

*The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.*

**RESPIRATORY PROTECTION:** Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

**EYE PROTECTION:** Splash goggles or safety glasses with side shields recommended where splashing is possible. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

**HAND PROTECTION:** Compatible protective gloves recommended as appropriate for task. Wash hands after removing gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

**BODY PROTECTION:** Use body protection appropriate to prevent contact (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards.

**SECTION 9 - PHYSICAL and CHEMICAL PROPERTIES**

<b>PHYSICAL STATE:</b>	Liquid
<b>APPEARANCE &amp; ODOR:</b>	Transparent green liquid with a floral odor
<b>ODOR THRESHOLD (PPM):</b>	Not Available
<b>VAPOR PRESSURE (mmHg):</b>	Not Available
<b>VAPOR DENSITY (AIR=1):</b>	Not Available
<b>EVAPORATION RATE (nBuAc = 1):</b>	Not Available
<b>BOILING POINT (C°):</b>	212°F
<b>FREEZING POINT (C°):</b>	Not Available
<b>pH:</b>	Not Available
<b>SPECIFIC GRAVITY 20°C: (WATER =1)</b>	>1.0
<b>SOLUBILITY IN WATER (%)</b>	Not Available
<b>VOC:</b>	Nil

**SECTION 10 - STABILITY and REACTIVITY**

**STABILITY:** Product is stable

**DECOMPOSITION PRODUCTS:** When heated to decomposition this product may contain unidentified toxic and/or irritating compounds.

**MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE:** Strong acids.

**HAZARDOUS POLYMERIZATION:** Will not occur.

**CONDITIONS TO AVOID:** Contact with incompatible materials, extreme temperatures.

**SECTION 11 - TOXICOLOGICAL INFORMATION**

**TOXICITY DATA:** Toxicity data available for mixture:

Oral LD50 Rat: = 200 mg/kg

Dermal LD50 Rabbit: = 1749 mg/kg

**SUSPECTED CANCER AGENT:** None of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore is not considered to be, nor suspected to be a cancer-causing agent by these agencies.

**IRRITANCY OF PRODUCT:** Contact with this product can be irritating to exposed skin, eyes and respiratory system.

**SENSITIZATION OF PRODUCT:** This product is considered a skin and respiratory sensitizer.

**REPRODUCTIVE TOXICITY INFORMATION:** No data available

**SECTION 12 - ECOLOGICAL INFORMATION**

**ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.**

**ENVIRONMENTAL STABILITY:** No Data available at this time.

**EFFECT OF MATERIAL ON PLANTS or ANIMALS:** This product is considered to be moderately toxic to birds on an acute basis. (LD50 between 51 and 500 mg/kg)

**EFFECT OF CHEMICAL ON AQUATIC LIFE:** This product is highly toxic to aquatic organisms on an acute basis (LC50/EC50 between 0.1 and 1 mg/l in the most sensitive species)

**SECTION 13 - DISPOSAL CONSIDERATIONS**

**PREPARING WASTES FOR DISPOSAL:** Waste disposal must be in accordance with appropriate Federal, State, and local regulations, those of Canada, EU Member States and Japan.

**SECTION 14 - TRANSPORTATION INFORMATION**

**US DOT; IATA; IMO; ADR:**

**THIS PRODUCT IS HAZARDOUS AS DEFINED BY 49 CFR 172.101 BY THE U.S. DEPARTMENT OF TRANSPORTATION.**

**PROPER SHIPPING NAME:** Corrosive liquid, Toxic, n.o.s. (Contains Glutaraldehyde 50%)

**HAZARD CLASS NUMBER and DESCRIPTION:** Class 8 Corrosive, Sub Class 6.1 Toxic

**UN IDENTIFICATION NUMBER:** UN2922

**PACKING GROUP:** PGII

**DOT LABEL(S) REQUIRED:** Corrosive Class 8 and Toxic 6.1

**NORTH AMERICAN EMERGENCY RESPONSE GUIDEBOOK NUMBER (2004):** 154

**MARINE POLLUTANT:** One of the ingredients are classified by the DOT as a Marine Pollutant (as defined by 49 CFR 172.101, Appendix B)

**U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS:**

This product is classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

**TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS:**

This product is classified as Dangerous Goods, per regulations of Transport Canada.

**INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA):**

This product is not classified as Dangerous Goods, by rules of IATA:

**INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION:**

This product is classified as Dangerous Goods by the International Maritime Organization.

**EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR):**

This product is classified by the United Nations Economic Commission for Europe to be dangerous goods.

**SECTION 15 - REGULATORY INFORMATION**

**UNITED STATES REGULATIONS**

**SARA REPORTING REQUIREMENTS:** This product is subject to the reporting requirements of Sections 302, 304 and 313 of Title III of the Superfund Amendments and Reauthorization Act., as follows: None





**TSCA:** All components in this product are listed on the US Toxic Substances Control Act (TSCA) inventory of chemicals.

**SARA 311/312:**

Acute Health: Yes      Chronic Health: Yes      Fire: No      Reactivity: No

**U.S. SARA THRESHOLD PLANNING QUANTITY:** There are no specific Threshold Planning Quantities for this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lb (4,540 kg) may apply, per 40 CFR 370.20.

**U.S. CERCLA REPORTABLE QUANTITY (RQ):** None

**CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65):** This product does not contain ingredient(s) are on the California Proposition 65 lists.

**CANADIAN REGULATIONS:**

**CANADIAN DSL/NDL INVENTORY STATUS:** All of the components of this product are on the DSL Inventory

**CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** No component of this product is on the CEPA First Priorities Substance Lists.

**CANADIAN WHMIS CLASSIFICATION and SYMBOLS:** This product is categorized as a Class D Division 1B, Class D Division 2B, Class E Corrosive material, as per the Controlled Product Regulations

**EUROPEAN ECONOMIC COMMUNITY INFORMATION:**

**EU LABELING AND CLASSIFICATION:**

**Classification of the mixture according to Regulation (EC) No1272/2008. See section 2 for details.**

**AUSTRALIAN INFORMATION FOR PRODUCT:**

**AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES (AICS) STATUS:** All components of this product are listed on the AICS.

**STANDARD FOR THE UNIFORM SCHEDULING OF DRUGS AND POISONS:** Not applicable.

**JAPANESE INFORMATION FOR PRODUCT:**

**JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS:** The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

**INTERNATIONAL CHEMICAL INVENTORIES:**

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac:	Listed
Australian Inventory of Chemical Substances (AICS):	Listed
Korean Existing Chemicals List (ECL):	Listed
Japanese Existing National Inventory of Chemical Substances (ENCS):	Listed
Philippines Inventory of Chemicals and Chemical Substances (PICCS):	Listed
Swiss Giftliste List of Toxic Substances:	Listed
U.S. TSCA:	Listed

**SECTION 16 - OTHER INFORMATION**

**PREPARED BY:** Paul Eigbrett

GHS MSDS Compliance PLUS

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