



# Safety Data Sheet

## CS 4106 LCT

### Section 1 Identification

**Trade Name:** CS 4106 LCT  
**Product Identification:** GLA-CS4106LCT  
**Synonyms:** None

**Date Prepared:** 03/31/2016  
**CAS No:** Mixture

**Product Use Description:**  
Industrial Water Treatment

#### Details of the supplier of the safety data sheet

G.L.A Water Inc.  
17802 Rapids Road  
HIRAM, OH 44234 US

**Phone:** (440) 834-8435

**website:** [www.glawater.com](http://www.glawater.com)

#### Emergency telephone number

Infotrac (800) 535-5053 (US & Canada)  
(352) 323-3500

### Section 2 Hazards Identification

#### GHS Classification:

Flammable Category 3  
Acute Toxicity Inhalation Category 4  
Skin Corrosion/Irritation Category 2  
Serious Eye Damage/Irritation Category 2A

#### GHS Labels:



Irritant Flammable

**Signal Word:** Warning

#### Hazard Statements:

**H226** Flammable liquid and vapour  
**H315** Causes skin irritation  
**H319** Causes serious eye irritation  
**H332** Harmful if inhaled

#### Precautionary Statements:

##### Prevention

**P210** Keep away from heat, sparks, open flames and hot surfaces. No smoking.  
**P233** Keep container tightly closed.  
**P240** Ground container and receiving equipment.  
**P241** Use explosion-proof equipment.  
**P242** Use only non-sparking tools.  
**P243** Take precautionary measures against static discharge.  
**P261** Avoid breathing mist, vapours and spray.  
**P264** Wash skin thoroughly after handling.  
**P271** Use only outdoors or in a well-ventilated area.  
**P280** Wear protective gloves, protective clothing and eye protection or face protection.

#### Response

**Trade Name:** CS 4106 LCT  
**SDS ID:** SDS01045

**SDS #:** GLA-CS4106LCT  
**Revision #** 1

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- P303 + P361 + P353** IF ON SKIN (or hair): Remove immediately all contaminated clothing. Rinse SKIN with water.
- P304 + P340** IF INHALED: Remove victim to fresh air and Keep at rest in a position comfortable for breathing.
- P305 + P351 + P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332 + P313** IF SKIN irritation occurs: Get medical attention.
- P337 + P313** IF eye irritation persists: Get medical attention.
- P362 + P364** Take off contaminated clothing and wash before reuse

### Storage

- P403 + P235** Store in a well-ventilated place. Keep cool.

### Disposal

- P501** Dispose of contents/container to an approved waste disposal plant.

### Hazards Not Otherwise Classified (HNOC):

None.

### Additional Information:

None.

## Section 3 Composition

Chemical Name	Common Name/Synonym	CAS #	%
diethylhydroxylamine		3710-84-7	40 - 45

## Section 4 First Aid

### General:

Move out of dangerous area. Perform first aid measures as indicated. Seek medical attention and show this safety data sheet to attending physician.

### Inhalation:

Move to fresh air and keep at rest in a position comfortable for breathing. If breathing difficulty occurs or persists seek immediate medical attention. If not breathing give artificial respiration and seek immediate medical attention.

### Skin Contact:

Immediately flush exposed skin with water for at least 15 minutes while removing contaminated clothing and/or shoes. Thoroughly wash with soap and water. Seek medical attention if irritation develops or persists.

### Eye Contact:

Immediately flush eyes with water for at least 15 minutes, lifting the upper and lower eyelids intermittently. Check for and remove any contact lenses if easy to do. Seek medical attention if irritation develops or persists.

### Ingestion:

Rinse mouth with water. Do not induce vomiting. Seek medical attention if symptoms develop.

### Most important symptoms and effects both acute and delayed:

No information available.

### Indication of any immediate medical attention and special treatment needed:

No information available.

## Section 5 Fire Fighting Measures

### Suitable Extinguishing Media:

Use alcohol foam, carbon dioxide, dry chemical or water spray. Use water spray to cool fire exposed containers.

### Unsuitable Extinguishing Media:

No information available.

### Specific Hazards Developing From the Chemical:

Combustion may produce oxides of nitrogen, carbon monoxide, carbon dioxide and other unidentified organic compounds.

### Precautions for Firefighters:

No information available.



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**Firefighting Instructions:**

No information available.

**Protection During Firefighting:**

Wear full protective gear and full face pressure demand self-contained breathing apparatus.

**Other Information:**

No additional information available.

## Section 6 Accidental Release Measures

**Personal precautions, protective equipment and emergency procedures:**

Avoid direct contact with skin, eyes and clothing. Avoid inhalation of mist, vapor or dust. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

**Environmental Precautions:**

Prevent further leakage or spillage if safe to do so. Contain spilled material and prevent run-off onto ground or into water sources or sewers. Remove or eliminate all sources of ignition.

**Methods and material for containment and clean up:**

Absorb on inert material and place in containers for disposal. Dispose of spilled/collected material in accordance with all federal, state and local regulations.

## Section 7 Handling and Storage

**Precautions for Safe Handling:**

Avoid contact with skin and eyes. Avoid inhalation of mist, vapor and dust. Ensure adequate ventilation. Do not eat, drink or smoke while handling. Wear appropriate personal protective equipment as outlined in Section 8 of this SDS.

**Conditions for Safe Storage, including Incompatibilities:**

Store in original container. Keep container tightly closed. Store at room temperature (50-90 F) in a dry well-ventilated area.

## Section 8 Exposure Controls/Personal Protection

**Exposure Limits:**

Ingredient	Data Source	Exposure Form	Exposure Value	Exposure Notes
diethylhydroxylamine	ACGIH TLV OSHA PEL		Not Established Not Established	

**Appropriate Engineering Controls:**

Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or exposure limits. An eyewash and safety shower should be available in the work area. Use explosion proof electrical equipment, non-sparking tools and ground all containers while handling this product.

**Individual Protection Measures:****Eye/Face Protection:**

Safety glasses or chemical goggles should be worn when handling this material.

**Skin Protection:****Hand Protection:**

Wear chemical resistant gloves when handling.

**Other:**

Wear chemical resistant apron when handling.

**Respiratory Protection:**

Wear respiratory protection while using this material.

**General Hygiene Considerations:**

Do not wear contaminated or dirty clothing home from the work-site. Launder contaminated or dirty clothing before reuse. Follow good hygiene and safety practice. Wash hands and exposed skin before breaks and at the end of the work day. Do not eat, drink or smoke while handling this material.

**Additional Information:**

No additional information available.

## Section 9 Physical and Chemical Properties



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Appearance	Yellow Liquid
Odor	Amine
Odor threshold	Not available.
pH	12
Melting/freezing point	Not available.
Initial boiling point	Not available.
Flash point	120°F (49°C) TCC
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Lower flammability limit	Not available.
Upper flammability limit	Not available.
Lower explosive limit	Not available.
Upper explosive limit	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	Not available.
Solubility in water	Complete
PC: n-octanol/water	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Density	Not available.
Specific gravity	1.00

## Section 10 Stability and Reactivity

<b>Reactivity :</b>	Not reactive under normal use conditions.
<b>Chemical Stability :</b>	Material is stable under normal handling and storage conditions.
<b>Hazardous Reactions :</b>	Hazardous polymerization will not occur under normal handling and storage.
<b>Conditions to Avoid :</b>	Avoid sources of ignition.
<b>Decomposition Products:</b>	No decomposition products are expected under normal storage and handling conditions.
<b>Incompatible Materials:</b>	Avoid contact with strong acids. Avoid contact with oxidizers and sources of ignition.

## Section 11 Toxicological Information

### Information on the likely routes of exposure:

#### Inhalation:

Vapor and mist may cause respiratory irritation.

#### Skin Contact:

May cause skin irritation.

#### Eye Contact:

May cause eye irritation.

#### Ingestion:

May cause irritation of gastrointestinal system.

### Symptoms related to the physical, chemical and toxicological characteristics:

No information available.

### Delayed and chronic effects:

May cause skin sensitisation.

### Numerical measures of toxicity:

Components	Exposure	Species	Dose	Notes
<b>diethylhydroxylamine:</b>				
Oral	LD50	Rat	2190 mg/kg	
Dermal	LD50	Rabbit	1300 mg/kg	
Inhalation	LC50	Rat	3140 mg/l	4 hr



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### Toxicological Effects:

#### Acute Toxicity:

Mixture:  
No information available.

#### Skin Corrosion/Irritation:

Mixture:  
No information available.

#### Serious Eye Damage/Irritation:

Mixture:  
No information available.

#### Respiratory Sensitization:

Mixture:  
No information available.

#### Skin Sensitization:

Mixture:  
No information available.

#### Germ Cell Mutagenicity:

Mixture:  
No information available.

#### Carcinogenicity:

Mixture:  
This product is considered to be a potential carcinogen by:  
NTP: No  
OSHA: No  
IARC: No

#### Reproductive Toxicity:

Mixture:  
This product is not expected to cause reproductive and developmental effects.

#### STOT-Single Exposure:

Mixture:  
No information available.

#### STOT-Repeated Exposure:

Mixture:  
No information available.

#### Aspiration Hazard:

Mixture:  
This product is not an aspiration hazard.

#### Additional Information:

None.

## Section 12 Ecological Information

#### Ecotoxicity:

No information available.

#### Numerical Measures of Ecotoxicity:

Components	Type	Species	Dose	Notes
<b>diethylhydroxylamine:</b>				
Invertebrate	EC50	Daphnia magna	110.5 mg/l	48 hr

#### Persistence and Degradability:

Mixture:  
No information available.

#### Bioaccumulative Potential:

Mixture:  
No information available.

#### Mobility in Soil:

Mixture:  
No information available.

#### Other Adverse Effects:

Mixture:  
No information available.



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**Additional Information:**  
No information available.

### Section 13 Disposal Considerations

**Disposal Instructions:**

Dispose of material in accordance with all federal, state and local regulations.

**Contaminated Packaging:**

Triple rinse container and offer for recycling. Dispose of container following all federal, state and local regulations.

**Additional Information:**

No additional information available.

### Section 14 Transport Information

**DOT:**

Not classified.

### Section 15 Regulatory Information

**Federal Regulations:**

**SARA 311/312 Hazard Categories:**

Immediate (Acute) Health Hazard

Fire Hazard

**SARA 302 Extremely Hazardous Substance:**

Not listed.

**SARA 304 Emergency Release Notification:**

Not regulated.

**SARA 311/312 Hazardous Chemical:**

No

**SARA 313 Toxic Release Inventory (TRI) Report:**

Not regulated.

**CERCLA Hazardous Substance List:**

diethylhydroxylamine Reportable Quantity: > 100 lb

**Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA):**

This chemical is not a pesticide product.

**Clean Air Act Regulated Substances:**

None.

**Clean Water Act Regulated Substances:**

None.

**U.S. State Regulations:**

**New Jersey RTK Substances**

diethylhydroxylamine Listed.

**Pennsylvania RTK Substance**

diethylhydroxylamine Listed.

**Canadian Regulations:**

**Canadian Ingredient Disclosure List Substances:**

None listed.

**WHMIS Classification:**

diethylhydroxylamine

Class B3

Class D-2B

### Section 16 Other Information

**HMIS Hazard ID:**



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<b>HEALTH</b>	2
<b>FLAMMABILITY</b>	2
<b>REACTIVITY</b>	0
<b>PERSONAL PROTECTION</b>	G

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; \*-Chronic Health Effect

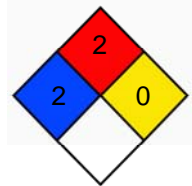
### NFPA Hazard ID:

Flamability:

Health:

Reactivity:

Special Hazard:



Hazard Rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

**Disclaimer:** The Manufacturer believes that the information contained in the Safety Data Sheet is accurate. The suggested procedures are based on experience as of the date of the publication. They are not necessarily all inclusive nor fully adequate in every circumstance. Also, the suggestions should not be confused with, nor followed in violation of applicable laws, regulations, rules or insurance requirements.

**Issue Date:** 03/31/2016

**Revision:** 1