



Safety Data Sheet

BOA-0390

Section 1 Identification

Trade Name: BOA-0390 **Date Prepared:** 03/31/2016
Product Identification: GLA-BOA0390
Synonyms: None **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 **Phone:** (440) 834-8435
HIRAM, OH 44234 US **website:** 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 Category 4
Skin Corrosion/Irritation Category 2
Serious Eye Damage/Irritation Category 1
Germ Cell Mutagenicity Category 2

GHS Labels:



Irritant Health Hazard Corrosive Flammable

Signal Word: Danger

Hazard Statements:

H226 Flammable liquid and vapour
H315 Causes skin irritation
H318 Causes serious eye damage
H332 Harmful if inhaled
H341 Suspected of causing genetic defects

Precautionary Statements:

Prevention

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P210 Keep away from heat, sparks, open flames and hot surfaces. No smoking.
P233 Keep container tightly closed.
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.



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Response

- 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.
- P308 + P313** IF exposed or concerned: Get medical advice.
- P310** Immediately call a POISON CENTER or physician.
- P312** Call a POISON CENTER or physician if you feel unwell.
- P332 + P313** IF SKIN irritation occurs: Get medical attention.
- P362 + P364** Take off contaminated clothing and wash before reuse

Storage

- P403 + P235** Store in a well-ventilated place. Keep cool.
- P405** Store locked up.

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	20 - 25
hydroquinone		123-31-9	10 - 15

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 immediate medical attention.

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.



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Unsuitable Extinguishing Media:

No information available.

Specific Hazards Developing From the Chemical:

In fire conditions after water loss, combustion may produce oxides of nitrogen and other unidentified chemical compounds.

Precautions for Firefighters:

No information available.

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		Not Established	
	OSHA PEL		Not Established	
hydroquinone	ACGIH TLV	TWA	1 mg/m3	
	NIOSH	Ceiling	2 mg/m3	
	OSHA Z-1	TWA	2 mg/m3	

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.

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:



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Wear respiratory protection if mist or vapor is produced, 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

Appearance	Colorless to Yellow
Odor	Liquid Amine
Odor threshold	Not available.
pH	9.5
Melting/freezing point	Not available.
Initial boiling point	Not available.
Flash point	125°F (52°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

Reactivity :	Not reactive under normal use conditions.
Chemical Stability :	Material is stable under normal handling and storage conditions.
Hazardous Reactions :	Hazardous polymerization will not occur under normal handling and storage.
Conditions to Avoid :	Avoid sources of ignition.
Decomposition Products:	No decomposition products are expected under normal storage and handling conditions.
Incompatible Materials:	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 and sensitisation.

Eye Contact:

May cause serious eye irritation.

Ingestion:

May cause irritation of gastrointestinal system.



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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
diethylhydroxylamine:				
Oral	LD50	Rat	2190 mg/kg	
Dermal	LD50	Rabbit	1300 mg/kg	
Inhalation	LC50	Rat	3140 mg/l	4 hr
hydroquinone:				
Oral	LD50	Rat	367 mg/kg	
Dermal	LD50	Rabbit	>2000 mg/kg	

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:

Contact may result in skin sensitisation.

Germ Cell Mutagenicity:

Mixture:

Possible risk of irreversible effects.

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 an aspiration hazard.

Additional Information:

None.

Section 12 Ecological Information

Ecotoxicity:

No information available.

Numerical Measures of Ecotoxicity:

Components	Type	Species	Dose	Notes
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diethylhydroxylamine:

Invertebrate	EC50	Daphnia magna	110.5 mg/l	48 hr
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hydroquinone:

Fish	LC50	Rainbow Trout	0.64 mg/l	96 hr
Invertebrate	EC50	Daphnia magna	0.13 mg/l	48 hr
Algae	EC50	Green Algae	0.33 mg/l	72 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.

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

Immediate (Acute) Health Hazard

Delayed (Chronic) Health Hazard

Fire Hazard

Fire Hazard

Sudden Release of Pressure Hazard

Reactivity Hazard

SARA 302 Extremely Hazardous Substance:

hydroquinone Reportable Quantity: 10000 lb

SARA 304 Emergency Release Notification:

hydroquinone Reportable Quantity: 100 lb

SARA 311/312 Hazardous Chemical:

No

SARA 313 Toxic Release Inventory (TRI) Report:

hydroquinone Reportable Quantity: 99.5%

CERCLA Hazardous Substance List:

hydroquinone Reportable Quantity: 100 lb

diethylhydroxylamine Reportable Quantity: > 100 lb



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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:**California Proposition 65**

hydroquinone

Reportable Quantity: Warning Cancer

New Jersey RTK Substances

diethylhydroxylamine

Listed.

Pennsylvania RTK Substance

diethylhydroxylamine

Listed.

Canadian Regulations:**Canadian Ingridient Disclosure List Substances:**

None listed.

WHMIS Classification:

diethylhydroxylamine

Class B3

Class D-2B

Section 16 Other Information

HMIS Hazard ID:

HEALTH	2
FLAMMABILITY	2
REACTIVITY	0
PERSONAL PROTECTION	C

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

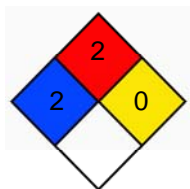
NFPA Hazard ID:

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.

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