



Safety Data Sheet

AE-2200-250 Part A

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

1. Product and Company Identification

Product Name: AE-2200-250 (Part A)

Product Use: Anchoring & Doweling

Emergency Phone:

Chemtrec

1.800.424.9300

Company Identification:

AQUABOND LLC

6444 E SPRING ST #275

LONG BEACH, CA 90815

Contact Phone: 714-961-1420

2. Hazards Identification (Part A)

GHS Classification

Health	Physical	Environmental
Skin Irritant Cat 2 Eye Irritant Cat 2A Skin Sens Cat 1	Not Classified	Toxic to Aquatic Life Cat-2

GHS Label:

Warning:



Causes eye irritation

Skin irritant

May cause skin sensitization

Emergency Overview

May cause skin sensitization

Avoid contact with the skin and eyes

Avoid breathing fume/gas/mist/vapors/spray

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

Use outdoors or in a well-ventilated area

Primary Route of Exposure

Eyes, skin and oral

Carcinogenicity

This product contains titanium dioxide which IARC has classified as a Group 2B carcinogen (possibly carcinogenic to humans). Evidence is based on sufficient animal testing as a result of long-term inhalation at high concentrations of respirable amounts of titanium dioxide. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of this product will create a possible dust hazard).

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of this product will create a possible silica dust hazard.

This product or one of its ingredients present at 0.1% or more IS listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.

3. Composition/ Information on Ingredients (Part A)

<u>CAS Number</u>	<u>Content %</u>	<u>Chemical Name</u>
25085-99-8	30 - 60	Diglycidyl Ether of Bisphenol A
14808-60-7	5 - 15	Crystalline Silica (quartz)
13463-67-7	1 - 5	Titanium Dioxide
Proprietary	10 - 20	Non - Hazardous Proprietary Ingredients
68460-21-9	7 - 15	Trimethylol Ethane Triglycidyl Ether
107-21-1	1 - 5	Ethylene Glycol (Cartridge ONLY)

4. First Aid Measures (Part A)

Inhalation: Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.

Skin: Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.

Ingestion: Give plenty of water. DO NOT induce vomiting. Call a physician immediately.

Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

5. Fire Fighting Measures (Part A)

Flash Point: N/D

Flammable Limits: N/D

Extinguisher Media

Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire and Explosion Hazard

None known. Thermal decomposition can be formed.

Special Fire Fighting Procedures

Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.

6. Accidental Release Measures (Part A)

Personal Precautions:

Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

Environmental Precautions:

Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

7. Handling and Storage (Part A)

Handling: Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

Storage: Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range in between 4 °C and 35 °C (40°F and 95° F).

8. Exposure Control and Personal Protection (Part A)

Exposure Guidelines

Component	CAS#	OSHA PEL	TLV
Ethylene Glycol (Cartridge ONLY)	107-21-1	50ppm (Ceiling)	100 mg/ m ³ (Ceiling)
Quartz Silica Sand (Crystalline Silica)	14808-60-7	0.1 mg/m ³	0.025 mg/m ³
Titanium Dioxide	13463-67-7	15 mg/m ³	10 mg/m ³

Engineering Measures: Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

Personal Protective Equipment

Respiratory Protection

None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

Eye/Face Protection

Wear splash proof chemical goggles/ full face shield if there is a potential for splashing.

Skin / Body Protection

Wear suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.

Other Protective Clothing or Equipment

Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

9. Physical and Chemical Properties (Part A)



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

Appearance:	White Paste
Evaporation Rate:	N/A
Odor:	Slight Odor
Solubility in Water:	Insoluble
Specific Gravity (H ₂ O=1):	1.4
Vapor Density (air = 1):	Non-Volatile
Vapor Pressure:	N/A
VOC Content:	< 10g/L (when mixed)
pH:	N/D
Boiling Point:	N/A

10. Stability and Reactivity (Part A)

Stability:	Stable.
Thermal Decomposition:	Can yield CO, CO ₂ and organic Nitrogen compounds.
Incompatibility:	Strong acids, peroxides, and other oxidizing agents.
Conditions to avoid:	Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

11. Toxicological Information (Part A)

Acute Oral Toxicity:
Not Determined

Acute Dermal Toxicity:
Not Determined

Acute Inhalation Toxicity:
Not Determined

Skin Irritation:
Irritating to skin.
The product has not been tested. The statement has been derived from the properties of the individual components.

Eye Irritation:
Irritating to eyes.
The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory Irritation:
Inhalation of vapors or mists may cause irritation to the respiratory system.

Sensitization:
May cause allergic skin reaction and irritation to the respiratory system.



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity Classification:

Quartz Silica Sand (Crystalline Silica):

IARC Group1: Known human carcinogen based on human evidence.

NTP (National Toxicology Program) has classified Crystalline Silica as a known human carcinogen.

Titanium dioxide:

IARC Group2B: Possibly carcinogenic to humans.

12. Ecological Information (Part A)

Acute Toxicity for:

Fish:

Diglycidyl Ether of Bisphenol A:

Fathead minnow/LC50 (96hrs): >3.1mg/l

Aquatic Invertebrates:

Diglycidyl Ether of Bisphenol A:

Water Flea Daphnis/EC 50 (48hrs): > 1.4mg/l

Algae:

No Data Available

Microorganisms:

Diglycidyl Ether of Bisphenol A:

Bacteria, (Growth inhibition)/IC50 (18hrs): > 42.6mg/l

Mobility:

Considering the use of the substance, it is unlikely that significant environmental exposure in the air or water will arise.

13. Disposal Considerations (Part A)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.

14. Transportation Information (Part A)

This product is not regulated as a hazardous material for transportation.

15. Regulatory Information (Part A)

HMIS Rating



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

Health	*2
Flammability	1
Physical Hazard	0
PPE	B

NFPA Rating



Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Federal Regulations

CERCLA RQ

5000 lbs

CAS

107-21-1

Chemical Name

Ethylene Glycol (Cartridge ONLY)

SARA Title 311/312

Chronic Health Hazard

CA Prop 65

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

TSCA

Listed

State Regulations:

State RTK

NJ, MA, PA

CAS#

25085-99-8

107-21-1

14808-60-7

13463-67-7

Chemical Name

Diglycidyl Ether of Bisphenol A

Ethylene Glycol (Cartridge ONLY)

Crystalline Silica (quartz)

Titanium Dioxide

16. Other Information (Part A)

Hazard Communication: This SDS has been prepared in accordance with the federal OSHA Hazard Communication Standard.

To the best of our knowledge, the information contained herein is accurate. However, Aquabond does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Additional information is available upon request.



Safety Data Sheet

AE-2200-250 Part B

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Version: 4.0

1. Product and Company Identification

Product Name: AE-2200-250 (Part B)

Company Identification:==

AQUABOND LLC

6444 E SPRING ST #275

Long Beach, CA 90815

Contact Phone: 1714-961-1420

Product Use: Anchoring & Doweling

Emergency Phone:

Chemtrec

1.800.424.9300

2. Hazards Identification (Part B)

GHS Classification

Health	Physical	Environmental
Skin Corrosion Cat 1 Serious Eye Damage Cat 1 Skin Sen 1 Reproductive Tox Cat 2 Acute Tox Oral Cat 4 Acute Tox Inhalation Cat 4	Not Classified	Toxic to Aquatic Life Cat-2

GHS Label:

Danger:



Corrosive to skin and eyes



May cause skin sensitization
Harmful if swallowed or inhaled



Reproductive toxicity

Emergency Overview

Causes skin burns

Causes severe eye damage

Harmful if swallowed or inhaled

May cause skin sensitization

Suspected of damaging fertility

Wash skin thoroughly after handling

Avoid breathing fume/gas/mist/vapors/spray

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

Use outdoors or in a well-ventilated area

Avoid contact during pregnancy/while nursing

Primary Route of Exposure

Eyes, skin and oral

Carcinogenicity

This product contains crystalline silica (quartz sand). IARC has classified crystalline silica as a Group 1 carcinogen. Both IARC and NTP consider silica as a known human carcinogen. Evidence is based on the



Safety Data Sheet

AE-2200-250

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Version: 4.0

chronic and long-term exposure workers have had to respirable sized crystalline silica dust particles. Because this product is in liquid or paste form, it does not pose a dust hazard; therefore, this classification is not relevant. (Note: sanding of this product will create a possible silica dust hazard)

This product or one of its ingredients present at 0.1% or more IS listed as a carcinogen or suspect carcinogen by NTP, IARC, Prop 65 or OSHA.

3. Composition/ Information on Ingredients (Part B)

<u>CAS Number</u>	<u>Content %</u>	<u>Chemical Name</u>
140-31-8	5 – 15	n-aminoethylpiperazine
84852-15-3	15 – 30	Nonylphenol
90-72-2	3 – 7	Tris-2, 4, 6(dimethylaminomethyl) phenol
100-51-6	1 – 5	Benzyl Alcohol
68953-36-6	5 – 15	Polyamido Amine (Bulk ONLY)
68082-29-1	5 – 15	Liquid polyamido resin (Cartridge ONLY)
14808-60-7	25 – 40	Crystalline Silica (quartz)
107-21-1	0.1– 1	Ethylene Glycol (Cartridge ONLY)

4. First Aid Measures (Part B)

Inhalation: Move to fresh air; give oxygen if breathing is difficult. Call a physician if symptoms persist.

Eyes: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if symptoms persist.

Skin: Remove contaminated clothing. Wash with mild soap and water. Get medical attention if skin irritation or dermatitis persists.

Ingestion: Give plenty of water. DO NOT induce vomiting. Call a physician immediately.

Other: Referral to a physician is recommended if there is any question about the seriousness of the injury/exposure. If sensitization occurs, future contact with the material should be avoided.

5. Fire Fighting Measures (Part B)

Flash Point: N/D

Flammable Limits: N/D

Extinguisher Media

Carbon Dioxide, Dry Chemical, Water Fog

Unusual Fire and Explosion Hazard

None known. Thermal Decomposition can be formed.

Special Fire Fighting Procedures

Firefighters must wear self-contained breathing apparatus and full protective clothing to prevent contact with toxic and/or irritating fumes.



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

6. Accidental Release Measures (Part B)

Personal Precautions:

Avoid all personal contact. In enclosed areas, cleanup personnel should wear self-contained breathing apparatus.

Environmental Precautions

Cover spills with sawdust, vermiculite, or other absorbent material to minimize spreading of the material before collecting.

7. Handling and Storage (Part B)

Handling: Avoid contact with eyes, skin and clothing. Avoid inhalation of vapors. Use with adequate ventilation. Use appropriate personal protection equipment (Section 8). Wash thoroughly after handling.

Storage: Store in a cool dry place away from direct sunlight. Keep from freezing. Recommended storage temperature range in between 4 °C and 35 °C (40°F and 95° F).

8. Exposure Control and Personal Protection (Part B)

Exposure Guidelines

Component	CAS#	OSHA PEL	TLV
Ethylene Glycol (Cartridge ONLY)	107-21-1	50ppm (Ceiling)	100 mg/ m ³ (Ceiling)
Quartz Silica Sand (Crystalline Silica)	14808-60-7	0.1 mg/m ³	0.025 mg/m ³

Engineering Measures: Use local and general exhaust ventilation to maintain airborne concentrations below TLV. Suitable respiratory equipment should be used in cases of insufficient ventilation or where operational procedures demand it.

Personal Protective Equipment

Respiratory Protection

None normally required. Use a NIOSH approved organic vapor chemical cartridge respirator when air movement is inadequate to control vapor build-up.

Eye / Face Protection

Wear splash proof chemical goggles/full face shield if there is a potential for splashing.

Skin / Body Protection

Wear Suitable gloves (neoprene, nitrile rubber or PVC) and protective clothing to mitigate exposure.



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

Other Protective Clothing or Equipment

Use protective clothing which is chemical resistant to this material. Safety shoes and boots should also be chemical resistant.

9. Physical and Chemical Properties (Part B)

Appearance:	Black Paste
Evaporation Rate:	N/A
Odor:	Slight Odor
Solubility in Water:	Insoluble
Specific Gravity (H ₂ O=1):	1.05
Vapor Density (air = 1):	Non-Volatile
Vapor Pressure:	N/A
VOC Content:	<10g/L (when mixed)
pH:	N/D
Boiling Point:	N/A

10. Stability and Reactivity (Part B)

Stability:	Stable.
Thermal Decomposition:	Can yield CO, CO ₂ and organic Nitrogen compounds.
Incompatibility:	Strong acids, peroxides, and other oxidizing agents.
Conditions to avoid:	Exposure to excessive heat and storage above 35°C (95°F) will shorten shelf life.

11. Toxicological Information (Part B)

Acute Oral Toxicity:
Not Determined

Acute Dermal Toxicity:
Not Determined

Acute Inhalation Toxicity:
Not Determined

Skin Irritation:

Corrosive to skin

The product has not been tested. The statement has been derived from the properties of the individual components.

Eye Irritation:



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

Severe damage to eyes.

The product has not been tested. The statement has been derived from the properties of the individual components.

Respiratory Irritation:

Inhalation of vapors or mists may cause irritation to the respiratory system.

Sensitization:

May cause allergic skin reaction and irritation to the respiratory system.

The product has not been tested. The statement has been derived from the properties of the individual components.

Maternal Toxicity:

Nonylphenol causes maternal toxic effects per animal testing.

Carcinogenicity Classification:

Quartz Silica Sand (Crystalline Silica):

IARC Group1: Known human carcinogen based on human evidence.

NTP (National Toxicology Program) has classified Crystalline Silica as a known human carcinogen.

12. Ecological Information (Part B)

Fish:

Polyamido Amine:

Zebrafish /LC50 (96hrs) : >5.0mg/l

Aquatic Invertebrates:

Polyamido Amine:

Water Flea Daphnis/EC 50 (48hrs): > 7.07mg/l

Algae:

No Data Available

Microorganisms:

No Data Available

Mobility:

Considering the use of the substance, it is unlikely that significant environmental exposure is the air or water will arise.

13. Disposal Considerations (Part B)

If the material as supplied becomes a waste, dispose in accordance with federal, state and local regulations.



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

Version: 4.0

14. Transportation Information (Part B)

DOT (US)

CARTRIDGE: Limited Quantity, LTD QTY

BULK: Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 1760, PG III

IATA/ICAO

CARTRIDGE/BULK: Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 1760, PG III

IMDG

CARTRIDGE/BULK: Corrosive Liquid, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 1760, PG III

15. Regulatory Information (Part B)

HMIS Rating	
Health	*3
Flammability	1
Physical Hazard	0
PPE	B

NFPA Rating



Hazard Rating: 0 = minimal, 1 = slight, 2 = moderate, 3 = severe, 4 = extreme

Federal Regulations

CERCLA RQ

5000 lbs.

CAS

107-21-1

Chemical Name

Ethylene Glycol (Cartridge ONLY)

SARA Title 311/312

Chronic Health Hazard

CA Prop 65

This product contains a chemical or chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

TSCA

Listed

State Regulations:

State RTK
NJ, MA, PA

CAS#
107-21-1
14808-60-7
140-31-8

Chemical Name
Ethylene Glycol (Cartridge ONLY)
Crystalline Silica (quartz)
n-aminoethylpiperazine



Safety Data Sheet

AE-2200-250

Created On: 03/20/2014

Revision Date: 12/15/2015

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16. Other Information

Hazard Communication: This SDS has been prepared in accordance with the federal OSHA Hazard= Communication Standard.

To the best of our knowledge, the information contained herein is accurate. However, Aquabond does not assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

Additional information is available upon request.