

**Safety Data Sheet**  
**Miracle Bond 1310**

Created On: 02/07/2014  
 Revision Date: 02/11/2015  
 Version: 3.0

**1. Product and Company Identification**

**Product Name:** Miracle Bond 1310 (Part A)

**Product Use:** Concrete Repair

**Company Identification:**  
 ADHESIVES TECHNOLOGY CORP.  
 450 East Copans Road  
 Pompano Beach, FL 33064  
 Contact Phone: 1.800.892.1880  
 (9:00a.m. – 5:00p.m. EST)

**Emergency Phone:**  
 Chem-Tel:  
 1.800.255.3924 (24hrs)

**2. Hazards Identification (Part A)**

**GHS Classification**

Health	Physical	Environmental
Skin Irritant Cat 2 Eye Irritant Cat 2B Skin Sensitizer Cat 1B Carcinogen Cat 2	Not Classified	Not Classified

GHS Label:

**Warning:**



Skin Sensitizer  
 Eye and Skin Irritant



Suspected Carcinogen

**Emergency Overview**

May cause skin sensitization  
 Causes skin and eye irritation  
 May cause cancer  
 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

**Primary Route of Exposure**

Eyes, skin and oral

**Carcinogenicity**

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.

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### 3. Composition/ Information on Ingredients (Part A)

<u>CAS Number</u>	<u>Content %</u>	<u>Chemical Name</u>
25085-99-8	60 - 80	Diglycidyl Ether of Bisphenol A
13463-67-7	0.5 - 1.5	Titanium Dioxide
Proprietary	10 - 25	Non - Hazardous Proprietary Ingredients
68460-21-9	7 - 15	Trimethylol Ethane Triglycidyl Ether

### 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: 149 °C (>300 °F)

Flammable Limits: N/A

#### **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.

#### **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)

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**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
Titanium Dioxide	13463-67-7	15 mg/m <sup>3</sup>	10 mg/m <sup>3</sup>

**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)

Appearance:	White Paste
Evaporation Rate:	N/D
Odor:	Slight Odor
Solubility in Water:	Insoluble
Specific Gravity(g/cc):	1.36
Vapor Density(air = 1):	Non-volatile
Vapor Pressure:	N/D
VOC Content:	0 g/l (20 g/l when mixed)
pH:	N/D
Boiling Point:	N/D

### 10. Stability and Reactivity (Part A)

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Stability:	Stable
Thermal Decomposition:	Can yield CO, CO <sub>2</sub> 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.

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### 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.

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

**STOT – single exposure**

Not Determined

**STOT – Repeated Exposure**

Not Determined

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**Carcinogenicity Classification:**

**Titanium Dioxide:**

IARC Group 2B: Possibly carcinogenic to humans.

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

**12. Ecological Information (Part A)**

**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	
Health	1
Flammability	1
Physical Hazard	0
PPE	B



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



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Federal Regulations

CERCLA RQ

SARA Title 311/312

Not Determined

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 or Exempt

State Regulations:

State RTK  
NJ, MA, PA

CAS#  
25085-99-8  
13463-67-7

Chemical Name  
Diglycidyl Ether of Bisphenol A  
Titanium Dioxide

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**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, Adhesives Technology Corp. 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.

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**Miracle Bond 1310**

Created On: 02/07/2014  
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**1. Product and Company Identification**

**Product Name:** Miracle Bond 1310 (Part B)

**Product Use:** Concrete Repair

**Company Identification:**  
 ADHESIVES TECHNOLOGY CORP.  
 450 East Copans Road  
 Pompano Beach, FL 33064  
 Contact Phone: 1.800.892.1880  
 (9:00a.m. – 5:00p.m. EST)

**Emergency Phone:**  
 Chem-Tel:  
 1.800.255.3924 (24hrs)

**2. Hazards Identification (Part B)**

GHS Classification

Health	Physical	Environmental
Skin Corrosion Cat 1 Serious Eye Damage Cat 1 Reproductive toxicity Cat 2 Carcinogen Cat 1	Not Classified	Toxic to Aquatic Life Cat-2

GHS Label:

**Danger:**



Corrosive to skin and eyes  
 Skin Irritant



Carcinogen  
 Reproductive toxicity

**Emergency Overview**

Causes skin burns  
 Causes severe eye damage  
 Suspected of damaging fertility  
 May cause cancer  
 May be harmful if inhaled  
 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 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.

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### 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
112-24-3	1 - 5	Triethylenetetramine
107-21-1	1 - 5	Ethylene Glycol
84852-15-3	15 - 30	Nonylphenol
100-51-6	1 - 5	Benzyl Alcohol
90-72-2	3 - 7	Tris-2,4,6-(dimethylaminomethyl)phenol
Proprietary	10 - 20	Non - Hazardous Proprietary Ingredient
14808-60-7	0.5 - 1.5	Crystalline Silica

### 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: >93°C (200°F)

Flammable Limits: N/A

#### 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 B)

#### Personal Precautions:

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

#### Environmental Precautions



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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	107-21-1	50ppm (Ceiling)	100 mg/ m <sup>3</sup> (Ceiling)
Quartz Silica Sand (Crystalline Silica)	14808- 60-7	0.1 mg/m <sup>3</sup>	0.025 mg/m <sup>3</sup>
Benzyl Alcohol	100-51-6	50ppm (Ceiling)	100 mg/m <sup>3</sup>

**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 B)

Appearance: Black Paste  
Evaporation Rate: N/A  
Odor: Slight Odor

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Solubility in Water:	Insoluble
Specific Gravity(g/cc):	N/A
Vapor Density(air = 1):	Non-Volatile
Vapor Pressure:	N/A
VOC Content:	20g/l (when mixed)
pH:	N/D
Boiling Point:	N/A

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### 10. Stability and Reactivity (Part B)

Stability:	Stable
Thermal Decomposition:	Can yield CO, CO <sub>2</sub> 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.

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### 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:**  
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.

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**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)**

At the present state of knowledge, no negative ecological effects are expected. Past experiences have shown this material to have no harmful effect on the environment.

**13. Disposal Considerations (Part B)**

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

**14. Transportation Information (Part B)**

**DOT (US)**

**CARTRIDGE:** Limited Quantity, LTD QTY  
**BULK – Corrosive Liquids, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched), Class 8, UN 1760, PG III**

**IATA/ICAO**

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

**IMDG**

**CARTRIDGE/BULK:** Corrosive Liquids, n.o.s. (aminoethylpiperazine, 4-Nonylphenol, branched) Class 8, UN 1760, PG III  
 Marine pollutant: yes

**15. Regulatory Information (Part B)**

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



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



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Federal Regulations

CERCLA RQ  
5000 lbs

CAS  
107-21-1

Chemical Name  
Ethylene Glycol

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  
14807-96-6

Chemical Name  
Ethylene Glycol  
Quartz Silica Sand (Crystalline Silica)  
n-aminoethylpiperazine  
Hydrous Magnesium silicate

**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, Adhesives Technology Corp. 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.