

Safety Data Sheet Ultrabond 1

Created On: 03/20/2014
Revision Date: 12/11/2014
Version: 2.0

1. Product and Company Identification

Product Name: Ultrabond 1 (Part A)

Product Use: Anchoring

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 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 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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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 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.

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
107-21-1	1 - 5	Ethylene Glycol
14808-60-7	20 - 40	Quartz Silica Sand (Crystalline Silica)
13463-67-7	1 - 5	Titanium Dioxide
Proprietary	3 - 7	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:

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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)

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	107-21-1	50 ppm (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)

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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:	7.84 g/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.
The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity Classification:

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Quartz Silica Sand (Crystalline Silica) - See Part A Section 2.
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 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	
Health	*2
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:

<u>CERCLA RQ</u>	<u>CAS #</u>	<u>Chemical Name</u>
5000 lbs	107-21-1	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:

<u>State RTK</u>	<u>CAS #</u>	<u>Chemical Name</u>
NJ, MA, PA	25085-99-8	Diglycidyl Ether of Bisphenol A
	107-21-1	Ethylene Glycol
	14808-60-7	Quartz Silica Sand (Crystalline Silica)
	13463-67-7	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, 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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1. Product and Company Identification

Product Name: Ultrabond 1 (Part B)

Product Use: Anchoring

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 Skin Sen 1 Reproductive Tox Cat 2	Not Classified	Toxic to Aquatic Life Cat-2

GHS Label:

Danger:



Corrosive to skin and eyes



May cause skin sensitization



Reproductive toxicity

Emergency Overview

Causes skin burns
Causes severe eye damage
May cause skin sensitization
Heated vapors can cause irritation
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 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 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.

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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	3 – 7	n-aminoethylpiperazine
84852-15-3	3 – 7	Nonylphenol
90-72-2	3 – 7	Tris-2, 4, 6(dimethylaminomethyl) phenol
Proprietary	40 – 60	Non – Hazardous Proprietary Ingredients
68082-29-1	15 – 30	Liquid Polyamide Resin
107-21-1	0.1– 1	Ethylene Glycol
14808-60-7	1 – 5	Quartz Silica Sand (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:

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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	107-21-1	50 ppm (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.

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

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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:	7.84 g/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:

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:

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Nonylphenol causes maternal toxic effects per animal testing.

Carcinogenicity Classification:

Quartz Silica Sand (Crystalline Silica) – See Part B Section 2.

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:

Liquid Polyamide Resin:

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

Aquatic Invertebrates:

Liquid Polyamide Resin:

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 in 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.

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)

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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.

SARA Title 311/312

CA Prop 65

TSCA

CAS #

107-21-1

Chronic Health Hazard

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

Listed

Chemical Name

Ethylene Glycol

State Regulations:

State RTK

NJ, MA, PA

CAS #

107-21-1

14808-60-7

140-31-8

Chemical Name

Ethylene Glycol

Quartz Silica Sand (Crystalline Silica)

n-aminoethylpiperazine

16. Other Information (Part B)

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.