SAFETY DATA SHEET





1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Structure Guard® 100% Solids Epoxy - Part A
Trade Name	• RD 1000
Company	• Quadex LLC, 564 W. 9320 S., Sandy, UT 84070
Company Contact	Matthew Peterson
Company Phone	• 844-782-4832
Emergency	Domestic Shipments and to Canada: 1-800-633-8253
	International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

GHS Ratings			
	Carcinogen	• 2	 Limited evidence of human or animal carcinogenicity
Hazard Statement(s)			
	H351	• Suspected	d of causing cancer
Precautionary Statement(s)			
	P201	• Obtain sp	ecial instructions before use
	P202		ndle until all safety precautions have I and understood
	P281	• Use perso	nal protective equipment as required
	P308+P313	 IF expose attention 	d or concerned: Get medical advice/
	P405	Store lock	red up
	P501	• Dispose o	f contents/container to
Signal Word	Warning		
Pictogram			

REV. 04-07-2021



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Weight Concentration %
Epoxy Resin	• 25085-99-8	• 73.40%
Barium Sulfate	• 7727-43-7	• 10.00% - 20.00%
Titanium Dioxide	• 13463-67-7	• 5.00% - 10.00%
Silica	• 67762-90-7	• 1.00% - 5.00%

4. FIRST AID MEASURE

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms. Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists. Immediately wash skin with soap and plenty of water. If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point	• N/A
LEL	• N/A
UEL	• N/A
Not applicable	
Foam, Carbon dioxide (CO2) or dry chemical or water spray (water stream may be ineffective).	
No information available	
Not available	
Firefighters, and others exposed, wear self-contained breathing apparatus.	

6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use appropriate containment and clean up immediately. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/ or air by using appropriate containment methods.

7. HANDLING AND STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Avoid exposure to heat, light, and air for prolonged periods of time. Store in a cool, dry well ventilated area away from sources of heat and incompatable materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools. No information available.



Chemical Name / CAS No.	• Epoxy Resin 25085-99-8
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.
Chemical Name / CAS No.	Barium Sulfate 7727-43-7
OSHA Exposure Limits	• 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)
ACGIH Exposure Limits	• 5 mg/m³ TWA (inhalable fraction, particulate matter containing no asbestos and <1% crystalline silica)
Other Exposure Limits	NIOSH: 10 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable dust)
Chemical Name / CAS No.	Titanium Dioxide 13463-67-7
OSHA Exposure Limits	• 15 mg/m³ TWA (total dust)
ACGIH Exposure Limits	• 10 mg/m³ TWA
Other Exposure Limits	Not Established.
Chemical Name / CAS No.	• Silica 67762-90-7
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended Always use adaquate ventilation that comply with local regulations.

Eye/face Protection	 Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection reulation, or the Europena standard EN 166.
Skin Protection	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection	A NIOSHair purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive presure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifyig respirator may not provide adequate protection.



9. PHYSICAL & CHEMICAL PROPERTIES

Boiling Point	• 2500 to 3000 °C
Specific Gravity (SG)	• 1.426
Lbs VOC/Gallon Less Water	• 0.00
Lbs VOC/Gallon Less Exempt	• 0.00
% VOL by Volume	• 0.00

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stable, Hazardous polymeraization will not occur. STABLE. Strong acids, caustics, oxidixers, Avoid uncontrolled exposure to Epoxy Resin, Amine. No Data Found. None known, other than Sec. #2 and Sec #5. No Data Found. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity	
Component Toxicity	
Eyes	
Respiratory System	
Effects of Overexposure	
CAS Number	• 13463-67-7
Description	Titanium Dioxide
% Weight	• 5 to 10%
Carcinogen Rating	 Titanium Dioxide: NIOSH: potential occupational carcinogen IARC: Possible human carcinogen OSHA: listed
Avoid breathing vapors	
Oral	• N.D.A.
Dermal	• N.D.A.
Inhalation	• N.D.A.

12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product. Component Ecotoxicity.

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.



14. TRANSPORT INFORMATION

UN3082 Enviromentally Hazardous	
Substance	• Liquid
N.O.S. (Epoxy Resin)	
Packaging Group	•
Hazard Class	• 9

15. REGULATORY INFORMATION

15. KECCEATORT INTORTA	THO I
OSHA:29 CFR 1910.1200 Hazardous Chemical "Irritant"	
Sensitizer	State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin: 13463-67-7 Titanium Dioxide 10 to 20 % Carcinogen
The following chemicals are classified under SARA 313 Toxic Release Invetnory (TRI)	• None
Country	• EU
Regulation	REACH (EU) SUBSTANCES OF VERY HIGH CONCERN Toxic Substance Control Act (TSCA)
All Components Listed	• EU - No • TSCA - Yes
Safety Phrase	• None
	<u> </u>



16. OTHER INFORMATION

Further Information	HMIS® is a registered trade and service mark of the NPCA.	
HMIS® Ratings		
	Health	• 1
	Flammability	• 1
	Physical hazard	• 2
	Personal Protection:	• B
NFPA Ratings		
	Health	• 0
	Flammability	• 0
	Instability	• 0
Disclaimer	The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.	
Issue Date	Not available.	
This Data Sheet Contains	Product and Company Identification: Synonyms changes from the previous Physical & Chemical Properties: Multiple Properties version in section(s): Transport Information: Material Transportation Information Regulatory Information: United States.	

SAFETY DATA SHEET





1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	Structure Guard® Catalyst – Part B
Trade Name	• RD 1000
Company	• Quadex LLC, 564 W. 9320 S., Sandy, UT 84070
Company Contact	Matthew Peterson
Company Phone	• 844-782-4832
Emergency	Domestic Shipments and to Canada: 1-800-633-8253
	International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

GHS Ratings			
	Oral Toxicity	Acute Tox. 2	• Oral>5+<=50mg/kg
	Skin corrosive	• 2	 Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
	Eye corrosive	• 1	 Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
	Skin sensitizer	• 1	Skin sensitizer
	Reproductive toxin	• 2	Human or animal evidence possibly with other information
Hazard Statement(s)			
	H300	• Fatal if swallow	ed
	H315	Causes skin irrit	tation
	H317	May cause an a	llergic skin reaction
	H318	Causes serious	eye damage
	H361	Suspected of dichild	amaging fertility or the unborn



2. HAZARDS IDENTIFICATION (CONTINUED)

Precautionary Statement(s)

P201	 Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P261	 Avoid breathing dust/fume/gas/mist/vapours/ spray
P264	Wash thoroughly after handling
P270	 Do not eat, drink or smoke when using this product
P272	 Contaminated work clothing should not be allowed out of the workplace
P280	 Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	 Immediately call a POISON CENTER or doctor/ physician
P321	Specific treatment (see on this label)
P330	Rinse mouth
P362	 Take off contaminated clothing and wash before reuse
P363	Wash contaminated clothing before reuse
P301+P310	 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352	IF ON SKIN: Wash with soap and water
P305+P351+P338	 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if preser and easy to do - continue rinsing
P308+P313	 IF exposed or concerned: Get medical advice/ attention
P332+P313	 If skin irritation occurs: Get medical advice/ attention
P333+P313	 If skin irritation or a rash occurs: Get medical advice/attention
P405	Store locked up
P501	• Dispose of contents/container to
 Danger 	

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Signal Word Pictogram



3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Cas #	Weight Concentration %
Paratertiarybutylphenol	• 98-54-4	• 30.00% - 40.00%
Amine	• 1477-55-0	• 20.00% - 30.00%
1,5-Pentanediamine, 2 methyl	• 15520-10-2	• 20.00% - 30.00%
Silica	• 67762-90-7	• 10.00% - 20.00%
nonyl phenol	• 84852-15-3	• 1.00% - 5.00%

4. FIRST AID MEASURE

If inhaled remove to fresh air. If breathing is difficult, give oxygen. Obtain medical advice if there are persistent symptoms. Rinse immediately with plenty of water for at least 15 minutes. Ensure adequate flushing of the eyes by separating the eyelids with fingers. Remove contacts if present and easy to do. Continue Rinsing. Get medical attention, if irritation or symptoms of overexposure persists. Immediately wash skin with soap and plenty of water. If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flash Point	• 134°C (273°F)
LEL	• N/A
UEL	• N/A
Not applicable	
Foam, Carbon dioxide (CO2) or dry chemical or water spray (water stream may be ineffective).	
No information available	
Not available	
Firefighters, and others exposed, wear self-contained breathing apparatus.	

6. ACCIDENTAL RELEASE MEASURES

Stop leak. Dike or contain spill. Pump into slavage tanks and/or absorb with suitable material. Use sparkless shovel to remove material. Evacuate area and keep unnecessary and unprotected personnel from entering the spill area. Use appropriate containment and clean up immediately. Stop leak, Dike and contain spill. Prevent spilled material from entering the ground, water and/ or air by using appropriate containment methods.

7. HANDLING AND STORAGE

Avoid breathing vapor. Avoid contact with eyes, skin and clothing. Keep away from heat and flame. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Avoid exposure to heat, light, and air for prolonged periods of time . Store in a cool, dry well ventilated area away from sources of heat and incompatable materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools.



8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

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Chemical Name / CAS No.	Paratertiarybutylphenol 98-54-4
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.
Chemical Name / CAS No.	• Amine 1477-55-0
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	• 0.1 mg/m³ Ceiling
Other Exposure Limits	NIOSH: 0.1 mg/m³ Ceiling
Chemical Name / CAS No.	• 1,5-Pentanediamine, 2 methyl 15520-10-2
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.
Chemical Name / CAS No.	• Silica 67762-90-7
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.
Chemical Name / CAS No.	• nonyl phenol 84852-15-3
OSHA Exposure Limits	Not Established.
ACGIH Exposure Limits	Not Established.
Other Exposure Limits	Not Established.

Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits. Good general ventilation should be sufficiant to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which preforms satisfactory and meets OSHA or other recgonized standards. Consult with local procedures for selection, training, and maintenance of the personal protective equipment. Always use adaquate ventilation that comply with local regulations.

Eye/face Protection	Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection reulation, or the Europena standard EN 166.
Skin Protection	Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
Respiratory Protection	A NIOSHair purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air purifying respirators is limited. Use a positive presure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifyig respirator may not provide adequate protection.

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9. PHYSICAL & CHEMICAL PROPERTIES

Boiling Point	• 247 °C
Specific Gravity (SG)	• 0.970
Lbs VOC/Gallon Less Water	• 0.00
Lbs VOC/Gallon Less Exempt	• 0.00
% VOL by Volume	• 0.00

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Stable, Hazardous polymeraization will not occur. Will react with Epoxy Resins especially at elevated temperatures. STABLE. Epoxy Resins under uncontrolled conditions. Mineral acids. Organic acid, oxidixers, Reacts with metals until reacted with epoxy. None known. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity	
Oral Toxicity LD50	• 8mg/kg
Dermal Toxicity LD50	• 3,216mg/kg
Inhalation Toxicity LC50	• 2,901mg/L
Component Toxicity	 Paratertiarybutylphenol 98-54-4 Oral LD50: 3,250 QL/kg (Rat) Dermal LD50: 2,318 mg/kg (Rabbit) Amine 1477-55-0 Oral LD50: 660 mg/kg (Rat) Dermal LD50: 2 g/kg (Rabbit) Inhalation LC50: 700 ppm (Rat) nonyl phenol 84852-15-3 Oral LD50: 1,300 mg/kg (Rat) Dermal LD50: 2,031 mg/kg (Rabbit)
Eyes	Irritant to the eyes. Corrosive to Eyes
Skin	Irritant to the skin. Corrosive to Skin
Inhalation	• Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation.
Inhalation Sensitization	 Irritant to respiratory tract. Prolonged or excessive inhalation may cause respiratory tract irritation. Skin sensitization in humans. Avoid breathing vapors.
	may cause respiratory tract irritation.
Sensitization	may cause respiratory tract irritation. • Skin sensitization in humans. Avoid breathing vapors.



12. ECOLOGICAL INFORMATION

No ecotoxicity data was found for the product.	
Component Ecotoxicity	
Paratertiarybutylphenol	 96 Hr LC50 Pimephales promelas: 4.71 - 5.62 mg/L [flow-through]; 96 Hr LC50 Cyprinus carpio: 6.9 mg/L [static] 48 Hr EC50 Daphnia magna: 3.9 mg/L; 48 Hr EC50 Daphnia magna: 3.4 - 4.5 mg/L [Static] 72 Hr EC50 Desmodesmus subspicatus: 11.2 mg/L
nonyl phenol	 96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.1351 mg/L [flow-through] 48 Hr EC50 Daphnia magna: 0.14 mg/L 96 Hr EC50 Pseudokirchneriella subcapitata: 0.36 - 0.48 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 0.16 - 0.72 mg/L [static]; 72 Hr EC50 Desmodesmus subspicatus: 1.3 mg/L

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with applicable local/municipal, state/provincial and federal regulations.

14. TRANSPORT INFORMATION

UN2735 Amines, Liquid, corrosive, n.o.s. (Benzene-1,3-Dimethanamine,1,5-Pentanediamine, 2-Mthyl).

DOT Hazard Class 8 DOT Packaging Class II

15. REGULATORY INFORMATION

OSHA:29 CFR 1910.1200 (40 CFR 372.65)	Haxardous Chemical "Irritant", SensitizerSupplier Notification Required
TSCA	Ingredients listed
SARA III	Sec311 & 312 Immediate Health Haxard; Sec313 Chemicals above de minimus level: None
CA PROP. 65 NOTICE WARNING: CANADIAN REGULATORY INFO	 WHMIS; Hazard Classification: D2B Skin Sensitizer. Refer to SDS for specific warnings WHMIS Symbols Stylized T. WHMIS Trade Secret Registry Numbers - None Hazardous Products Act Information: This product SDS contains ingredients which are Controlled and/or on the Ingredient Disclosure List (HPA sections 13 and 14).
The following chemicals are classified under SARA 313 Toxic Release Invetnory (TRI)	• 84852-15-3 nonyl phenol 1 to 5 %



15. REGULATORY INFORMATION (CONTINUED)

Country	• EU
Regulation	REACH (EU) SUBSTANCES OF VERY HIGH CONCERN Toxic Substance Control Act (TSCA)
All Components Listed	• EU - No • TSCA - Yes
Safety Phrase	• None

16. OTHER INFORMATION

Further Information	• HMIS® is a registered trade and service mark of the NPCA.	
HMIS® Ratings		
	Health	• 3
	Flammability	• 1
	Physical hazard	• O
	Personal Protection:	• H
NFPA Ratings		
	Health	• 3
	Flammability	• 1
	Instability	• O
Disclaimer	• The information provided in this Safety Data Sheet is correct to the best of our knowledge information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification, The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.	
Issue Date	Not available.	
This Data Sheet Contains	Product and Company Identification: Synonyms changes from the previous Physical & Chemical Properties: Multiple Properties version in section(s): Transport Information: Material Transportation Information Regulatory Information: United States.	