

Structure Guard[®]-FM

1. PRODUCT AND COMPANY IDENTIFICATION


Product Name	• Quadex [®] Structure Guard [®] -FM (Fiber Reinforced Epoxy Mastic Catalyst) - Part B
Trade Name	• RE211
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		
<i>Acute Toxicity - Oral</i>	• 4	• Oral>300+<=2000mg/kg
<i>Skin corrosion/irritation</i>	• 2	• Reversible adverse effects in dermal tissue, Draize score: >= 2.3 < 4.0 or persistent inflammation
<i>Serious eye damage/eye irritation</i>	• 1	• Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
<i>Skin sensitization</i>	• 1	• Skin sensitizer
<i>Reproductive toxicity</i>	• 2	• Human or animal evidence possibly with other information

<i>Hazard Statement(s)</i>	
<i>H302</i>	• Harmful if swallowed
<i>H315</i>	• Causes skin irritation
<i>H317</i>	• May cause an allergic skin reaction
<i>H318</i>	• Causes serious eye damage
<i>H361</i>	• Suspected of damaging fertility or the unborn child

2. HAZARDS IDENTIFICATION (CONTINUED)

<i>Precautionary Statement(s)</i>	<ul style="list-style-type: none"> 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 present 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 ...
<i>Signal Word</i>	<ul style="list-style-type: none"> • Danger
<i>Pictogram</i>	

3. COMPOSITION/INFORMATION ON INGREDIENTS

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

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

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. Corrosive. Avoid personal contact adn breathing vapor or mist. 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.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<i>Chemical Name / CAS No.</i>	• Paratertiarybutylphenol 98-54-4
<i>OSHA Exposure Limits</i>	• Not Established.
<i>ACGIH Exposure Limits</i>	• Not Established.
<i>Other Exposure Limits</i>	• Not Established.
<i>Chemical Name / CAS No.</i>	• Amine 1477-55-0
<i>OSHA Exposure Limits</i>	• Not Established.
<i>ACGIH Exposure Limits</i>	• 0.1 mg/m ³ Ceiling
<i>Other Exposure Limits</i>	• NIOSH: 0.1 mg/m ³ Ceiling
<i>Chemical Name / CAS No.</i>	• 1,5-Pentanediamine, 2 methyl 15520-10-2
<i>OSHA Exposure Limits</i>	• Not Established.
<i>ACGIH Exposure Limits</i>	• Not Established.
<i>Other Exposure Limits</i>	• Not Established.
<i>Chemical Name / CAS No.</i>	• Silica 67762-90-7
<i>OSHA Exposure Limits</i>	• Not Established.
<i>ACGIH Exposure Limits</i>	• Not Established.
<i>Other Exposure Limits</i>	• Not Established.
<i>Chemical Name / CAS No.</i>	• Inert INERT
<i>OSHA Exposure Limits</i>	• Not Established.
<i>ACGIH Exposure Limits</i>	• Not Established.
<i>Other Exposure Limits</i>	• Not Established.
<i>Chemical Name / CAS No.</i>	• nonyl phenol 84852-15-3
<i>OSHA Exposure Limits</i>	• Not Established.
<i>ACGIH Exposure Limits</i>	• Not Established.
<i>Other Exposure Limits</i>	• 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 sufficient to control airborne levels. Where such systems are not effective wear suitable personal protective equipment, which preforms satisfactory and meets OSHA or other recognized standards. Consult with local procedures for selection, training, and maintenance of the personal protective equipment. Always use adequate ventilation that comply with local regulations.

<i>Eye/face Protection</i>	• Wear appropriate protective glasses or splash goggles as described by 29 CFR 1910.133, OSHA eye and face protection regulation, or the European standard EN 166
<i>Skin Protection</i>	• Chemical-resistant gloves and chemical goggles, face-shield and synthetic apron or coveralls should be used to prevent contact with eyes, skin or clothing.
<i>Respiratory Protection</i>	• A NIOSH air 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 pressure air supplied respirator if there is any potential for an uncontrolled release, exposure levels are not known or any other circumstance where air purifying respirator may not provide adequate protection.

9. PHYSICAL & CHEMICAL PROPERTIES

Boiling Point	• 247 °C
Specific Gravity (SG)	• 1.002
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 polymerization will not occur. Will react with Epoxy Resins especially at elevated temperatures. STABLE. Epoxy Resins under uncontrolled conditions. Mineral acids. Organic acid, oxidizers, Reacts with metals until reacted with epoxy. None known. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity	
Oral Toxicity LD50	• 1,957mg/kg
Dermal Toxicity LD50	• 3,216mg/kg
Inhalation Toxicity LC50	• 2,901mg/L
Component Toxicity	<ul style="list-style-type: none"> • Paratertiarybutylphenol – 98-54-4 Oral LD50: 3,250 µL/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.
Sensitization	• Skin sensitization in humans.
Avoid breathing vapors	
Effects of Overexposure	
CAS Number	• None.
Description	• None.
% Weight	• None.
Carcinogen Rating	• None.
Oral	• N.D.A.
Dermal	• N.D.A.
Inhalation	• N.D.A.

12. ECOLOGICAL INFORMATION

<i>No ecotoxicity data was found for the product.</i>	
Component Ecotoxicity	
<i>Paratertiarybutylphenol</i>	<ul style="list-style-type: none"> • 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
<i>nonyl phenol</i>	<ul style="list-style-type: none"> • 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

UN proper shipping name: Amines, liquid, corrosive, n.o.s.
 Transportation Hazardous Shipping Class: 8
 UN number: UN2735
 Packing Group: II
 Hazardous label: 8 Corrosive Substance
 Environmental hazards-marine pollutant: Yes

15. REGULATORY INFORMATION

<i>OSHA:29 CFR 1910.1200 (40 CFR 372.65)</i>	<ul style="list-style-type: none"> • Haxardous Chemical "Irritant", Sensitizer
<i>TSCA</i>	<ul style="list-style-type: none"> • Ingredients listed
<i>SARA III</i>	<ul style="list-style-type: none"> • Sec311 & 312 Immediate Health Haxard; Sec313 Chemicals above de minimus level: None
<i>CA PROP. 65 NOTICE WARNING: CANADIAN REGULATORY INFO</i>	<ul style="list-style-type: none"> • 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).

16. OTHER INFORMATION

<i>Further Information</i>	<ul style="list-style-type: none"> • HMIS® is a registered trade and service mark of the NPCA.
HMIS® Ratings	
<i>Health</i>	• 2
<i>Flammability</i>	• 0
<i>Physical hazard</i>	• 0
<i>Personal Protection</i>	• H
NFPA Ratings	
<i>Health</i>	• 2
<i>Flammability</i>	• 0
<i>Instability</i>	• 0
<i>Disclaimer</i>	<ul style="list-style-type: none"> • 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.
<i>Issue Date</i>	<ul style="list-style-type: none"> • Not available.
<i>This Data Sheet Contains</i>	<ul style="list-style-type: none"> • 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.