1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: STRUCTURE GUARD®-FM FIBER REINFORCED EPOXY MASTIC CATALYST

Revision Date: 01-2019
Product Code: RE211
Company: Stag Technologies, 564 W. 9320 S., Sandy, UT 84070
Company Contact: Matthew Peterson
Company Phone: 844-STAGTEC
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
  - Reversible adverse effects in dermal tissue, Draize score: &ge; 2.3 &lt; 4.0 or persistent inflammation

- Skin corrosive: 2
  - Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity &ge; 3, Iritis &gt; 1.5
  - Skin sensitizer

- Eye corrosive: 1
  - Skin sensitizer

- Skin sensitizer: 1
  - Human or animal evidence possibly with other information

- Reproductive toxin: 2
  - Human or animal evidence possibly with other information

GHS Hazards:
- H300: Fatal if swallowed
- H315: Causes skin irritation
- H317: May cause an allergic skin reaction
- H318: Causes serious eye damage
- H361: Suspected of damaging fertility or the unborn child
GHS Precautions

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 ...

Signal Word: Danger

3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paratertiarybutylphenol</td>
<td>98-54-4</td>
<td>30.00% - 40.00%</td>
</tr>
<tr>
<td>Amine</td>
<td>1477-55-0</td>
<td>20.00% - 30.00%</td>
</tr>
<tr>
<td>1,5-Pentanediimine, 2 methyl</td>
<td>15520-10-2</td>
<td>20.00% - 30.00%</td>
</tr>
<tr>
<td>Silica</td>
<td>67762-90-7</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>nonyl phenol</td>
<td>84852-15-3</td>
<td>1.00% - 5.00%</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flash Point</td>
<td>134°C (273°F)</td>
</tr>
<tr>
<td>LEL</td>
<td>N/A</td>
</tr>
<tr>
<td>UEL</td>
<td>N/A</td>
</tr>
</tbody>
</table>

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. Corrosive. Avoid personal contact and 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 incompatible materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

<table>
<thead>
<tr>
<th>Chemical Name / CAS No.</th>
<th>Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Paratertiarybutylphenol 98-54-4</td>
<td>OSHA: Not Established. ACGIH: Not Established. Other Exposure Limits: Not Established.</td>
</tr>
<tr>
<td>Amine 1477-55-0</td>
<td>OSHA: Not Established. ACGIH: 0.1 mg/m³ Ceiling. Other Exposure Limits: NIOSH: 0.1 mg/m³ Ceiling.</td>
</tr>
<tr>
<td>1,5-Pentanediwamine, 2 methyl 15520-10-2</td>
<td>OSHA: Not Established. ACGIH: Not Established. Other Exposure Limits: Not Established.</td>
</tr>
<tr>
<td>Silica 67762-90-7</td>
<td>OSHA: Not Established. ACGIH: Not Established. Other Exposure Limits: Not Established.</td>
</tr>
</tbody>
</table>
Use appropriate engineering control such as process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended. Always use adequate 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 regulation, or the European.

**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 NIOSH air purifying respirator with an organic vapor cartridge or canister may be permissible under certain circumstances where airborne.

### 9. PHYSICAL & CHEMICAL PROPERTIES

- **Boiling Range**: 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


### 11. TOXICOLOGICAL INFORMATION

**Mixture Toxicity**
- **Oral Toxicity LD50**: 8mg/kg
- **Dermal Toxicity LD50**: 3,216mg/kg
- **Inhalation Toxicity LC50**: 2,901mg/L

**Component Toxicity**
- 98-54-4 Paratertiarybutylphenol
  - **Oral LD50**: 3,250 μL/kg (Rat)
  - **Dermal LD50**: 2,318 mg/kg (Rabbit)
- 1477-55-0 Amine
  - **Oral LD50**: 660 mg/kg (Rat)
  - **Dermal LD50**: 2 g/kg (Rabbit)
  - **Inhalation LC50**: 700 ppm (Rat)

**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. Skin sensitization in humans.

**Effects of Overexposure**
- Avoid breathing vapors

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

<table>
<thead>
<tr>
<th>Component</th>
<th>96 Hr LC50 Pimephales promelas: 4.71 - 5.62 mg/L [flow-through]; 96 Hr LC50 Cyprinus carpio: 6.9 mg/L [static]</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>48 Hr EC50 Daphnia magna: 3.9 mg/L; 48 Hr EC50 Daphnia magna: 3.4 - 4.5 mg/L [Static]</td>
</tr>
<tr>
<td></td>
<td>72 Hr EC50 Desmodesmus subspicatus: 11.2 mg/L</td>
</tr>
<tr>
<td>Paratertiarybutylphenol</td>
<td>96 Hr LC50 Pimephales promelas: 0.135 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 0.1351 mg/L [flow-through]</td>
</tr>
<tr>
<td></td>
<td>48 Hr EC50 Daphnia magna: 0.14 mg/L</td>
</tr>
<tr>
<td></td>
<td>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</td>
</tr>
<tr>
<td>nonyl phenol</td>
<td></td>
</tr>
</tbody>
</table>

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

14. TRANSPORT INFORMATION
UN1235 Amines, Liquid, corrosive, n.o.s. (Benzene-1,3-Dimethanamine.
Group III: Hazardous Class 3

15. REGULATORY INFORMATION
TSCA Ingredients listed
SARA III Sec311 & 312 Immediate Health Hazard; Sec313 Chemicals above de minimus level: None

CA PROP. 65 NOTICE WARNING: CANADIAN REGULATORY INFORMATION
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 1

The following chemicals are classified under SARA 313 Toxic Release Inventory (TRI):
84852-15-3 nonyl phenol 1 to 5 %

<table>
<thead>
<tr>
<th>Country</th>
<th>Safety Phrase</th>
<th>Regulation</th>
<th>REACH (EU) SUBSTANCES OF VERY HIGH CONCERN</th>
<th>Toxic Substance Control Act (TSCA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EU</td>
<td>None</td>
<td>All Components Listed</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>
16. OTHER INFORMATION

Further information
HMIS® is a registered trade and service mark of the NPCA.
Health: 3
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 2
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.
1. PRODUCT AND COMPANY IDENTIFICATION

Product Name
STRUCTURE GUARD®-FM (FIBER REINFORCED MASTIC) PART A

Revision Date
01-2019

Product Code
RE2119A

Company
Stag Technologies, 564 W. 9320 S., Sandy, UT 84070

Company Contact
Matthew Peterson

Company Phone
844-STAGTEC

Emergency Domestic Shipments and to Canada: 1-800-633-8253

International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

GHS Ratings:
- Carcinogen
- Limited evidence of human or animal carcinogenicity

GHS Hazards
- H351

GHS Precautions
- P201
- P202
- P281
- P308+P313
- P405
- P501

Signal Word
Warning

Suspected of causing cancer

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

IF exposed or concerned: Get medical advice/attention

Store locked up

Dispose of contents/container to ...
3. COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number</th>
<th>Weight Concentration %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Epoxy Resin</td>
<td>25085-99-8</td>
<td>74.70%</td>
</tr>
<tr>
<td>Barium Sulfate</td>
<td>7727-43-7</td>
<td>10.00% - 20.00%</td>
</tr>
<tr>
<td>Silica</td>
<td>67762-90-7</td>
<td>1.00% - 5.00%</td>
</tr>
<tr>
<td>Titanium Dioxide</td>
<td>13463-67-7</td>
<td>1.00% - 5.00%</td>
</tr>
</tbody>
</table>

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. Corrosive. Avoid personal contact and 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 incompatible materials. Eliminate all ignition materials and incompatible materials. Collect spill with non spark tools. No information available.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION
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. Silica 67762-90-7
OSHA Exposure Limits Not Established.
ACGIH Exposure Limits Not Established.
Other Exposure Limits Not Established.

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.

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 performs satisfactorily 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.

Eye/face Protection 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.

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 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 Range 2500 to 3000°C
Specific Gravity (SG) 1.398
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. STABLE. Strong acids, caustics, oxidizers, Avoid uncontrolled exposure to Epoxy Resin, Amine, Isocyanates. No Data Found. None known, other than Sec. #2 and Sec #5. Hazardous polymerization will not occur.

11. TOXICOLOGICAL INFORMATION
Mixture Toxicity No Data Found
Component Toxicity No Data Found
Effects of Overexposure
Avoid breathing vapors

CAS Number 13463-67-7
Description Titanium Dioxide
% Weight 1 to 5%
Carcinogen Rating 
Titanium Dioxide: NIOSH: potential occupational carcinogen, IARC: Possible human carcinogen, OSHA: listed

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
UN1263 Paint Related Material;
Packaging Group III: Hazardous Class 3
NMFC 14998002; Flammable Liquid; Class 92.5

15. REGULATORY INFORMATION
TSCA Ingredients listed
SARA III Sec 311 & 312 Immediate Health Hazard; Sec 313 Chemicals above de minimus level: None
CA PROP. 65 NOTICE WARNING: CANADIAN REGULATORY INFORMATION
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). 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 1 to 5% Carcinogen

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

Further information

HMIS® ratings
Health: 1
Flammability: 1
Physical hazard: 2

NFPA ratings
Health: 1
Flammability: 0
Instability: 0

Disclaimer
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