SECTION 1: IDENTIFICATION

Product Identifier
Product Form: Hardener
Product Name: Pango® Bond Part B

Intended Use of the Product
With Part A, sealant for Pango Wrap around penetrations and along terminating edges.

Company Name, Address, and Telephone of the Responsible Party
Stego Industries, LLC
216 Avenida Fabricante #101
San Clemente, CA 92672 USA
Main Contact Number: (877) 464-7834

Emergency Telephone Number
Emergency Number: 1 (800) 424-9300 (24 Hrs.) CHEMTREC

SECTION 2: HAZARDS IDENTIFICATION

HAZARD CLASSIFICATION

Health Hazards
Skin Corrosion/Irritation: Category 1B
Serious Eye Damage/Eye Irritation: Category 1
Toxic to Reproduction: Category 2

Unknown Toxicity - Health
Acute Toxicity, oral: 14.78 %
Acute Toxicity, dermal: 44.28 %
Acute Toxicity, inhalation, vapor: 73.77 %
Acute Toxicity, inhalation, dust or mist: 73.34 %

Environmental Hazards
Acute Hazards to the Aquatic Environment: Category 1
Chronic Hazards to the Aquatic Environment: Category 1

Unknown Toxicity - Environment
Acute Hazards to the Aquatic Environment: 46.51 %
Chronic Hazards to the Aquatic Environment: 46.51 %

LABEL ELEMENTS

Signal Word: Danger
Hazard Symbols:

Hazard Statement:
Causes severe skin burns and eye damage.
Suspected of damaging fertility or the unborn child.
Very toxic to aquatic life with long lasting effects.

Continued...
Note - legal notice on page 13
SECTION 2: HAZARDS IDENTIFICATION  Continued...

Precaution Statements
Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Avoid release to the environment. Use personal protective equipment as required. Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF exposed or concerned: Get medical advice/attention. Collect spillage.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) Not Otherwise Classified (HNOC): None.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>MIXTURES</th>
<th>Chemical Identity</th>
<th>CAS#</th>
<th>Content In Percent (%)*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>4-Nonylphenol</td>
<td>84852-15-3</td>
<td>25 - &lt;50%</td>
</tr>
<tr>
<td></td>
<td>Talc</td>
<td>14807-96-6</td>
<td>20 - &lt;50%</td>
</tr>
<tr>
<td></td>
<td>Poly(oxypropylene) diamine</td>
<td>9044-10-0</td>
<td>20 - &lt;50%</td>
</tr>
<tr>
<td></td>
<td>Tris(dimethylaminomethyl)phenol</td>
<td>90-72-2</td>
<td>1 - &lt;3%</td>
</tr>
<tr>
<td></td>
<td>2-Methyl-1,5-pentanediamine</td>
<td>15520-10-2</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td></td>
<td>Wollastonite</td>
<td>13983-17-0</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td></td>
<td>Polyethylene</td>
<td>9002-88-4</td>
<td>1 - &lt;5%</td>
</tr>
<tr>
<td></td>
<td>4-tert-Butylphenol</td>
<td>98-54-4</td>
<td>0.25 - &lt;1%</td>
</tr>
<tr>
<td></td>
<td>m-Xylenediamine</td>
<td>1477-55-0</td>
<td>0.1 - &lt;1%</td>
</tr>
<tr>
<td></td>
<td>Crystalline Silica (Quartz)/ Silica Sand</td>
<td>14808-60-7</td>
<td>0.1 - &lt;1%</td>
</tr>
</tbody>
</table>

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: FIRST AID MEASURES

Ingestion: Rinse mouth. Call a physician or poison control center immediately. Never give liquid to an unconscious person. Do not induce vomiting without advice from poison control center.

Inhalation: Call a physician or poison control center immediately. If breathing stops, provide artificial respiration. Move to fresh air. If breathing is difficult, give oxygen.

Skin Contact: Call a physician or poison control center immediately. Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Destroy or thoroughly clean contaminated shoes.

Eye Contact: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.

Personal Protection for First aid Responders: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Continued...

Note - legal notice on page 13
SECTION 4: FIRST AID MEASURES  Continued...

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED
Symptoms: Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing.

Hazards: No data available.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED
Treatment: Symptoms may be delayed.

SECTION 5: FIRE-FIGHTING MEASURES

General Fire Hazards: No unusual fire or explosion hazards noted.

SUITABLE (AND UNSUITABLE) EXTINGUISHING MEDIA
Suitable Extinguishing Media: Use fire-extinguishing media appropriate for surrounding materials.
Unsuitable Extinguishing Media: Do not use water jet as an extinguisher, as this will spread the fire.
Specific Hazards Arising From the Chemical: During fire, gases hazardous to health may be formed.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS
Special Fire Fighting Procedures: No data available.
Special Protective Equipment for Fire-Fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures: See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away.
Accidental Release Measures: In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.
Methods and Material for Containment and Cleaning Up: Dam and absorb spillages with sand, earth or other non-combustible material. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.
Environmental Precautions: Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

SECTION 7: HANDLING AND STORAGE

HANDLING
Technical Measures (e.g. Local and General Ventilation): Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.
Safe Handling Advice: Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Do not taste or swallow. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes, on skin, on clothing.
Contact Avoidance Measures: No data available.
Hygiene Measures: Do not get in eyes. Observe good industrial hygiene practices. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product.

STORAGE
Safe Storage Conditions: Store locked up.
Safe Packaging Materials: No data available.

Continued...

Note - legal notice on page 13
### SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

#### CONTROL PARAMETERS

**Occupational Exposure Limits**

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Type</th>
<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Talc - Respirable fraction</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>Talc</td>
<td>TWA</td>
<td>20 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>Talc - Respirable</td>
<td>TWA</td>
<td>2.4 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.1 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>Wollastonite – Inhalable</td>
<td>TWA</td>
<td>1 mg/m³</td>
<td>US. ACGIH Threshold Limit Values, as amended (03 2015)</td>
</tr>
<tr>
<td>Polyethylene - Inhalable particles</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td>Polyethylene - Respirable particles</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (03 2015)</td>
</tr>
<tr>
<td>Polyethylene - Respirable fraction</td>
<td>PEL</td>
<td>5 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td>Polyethylene - Total dust</td>
<td>PEL</td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mg/m³</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
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<tr>
<td>Polyethylene - Respirable fraction</td>
<td>TWA</td>
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<td>15 millions of particles per cubic foot of air</td>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>m-Xylenediamine</td>
<td>Ceiling</td>
<td>0.018 ppm</td>
<td>US. ACGIH Threshold Limit Values, as amended (01 2019)</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
<td>US. ACGIH Threshold Limit Values (2011)</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)/ Silica Sand - Respirable dust</td>
<td>TWA</td>
<td>0.05 mg/m³</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>0.025 mg/m³</td>
<td>US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053) (03 2016)</td>
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<td>US. OSHA Table Z-3 (29 CFR 1910.1000) (2000)</td>
</tr>
<tr>
<td>Talc - Respirable</td>
<td>TWA</td>
<td>2 mg/m³</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007)</td>
</tr>
<tr>
<td>Talc</td>
<td>TWA</td>
<td>2 fibers/cc</td>
<td>Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents) (11 2010)</td>
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*Continued...*

*Note - legal notice on page 13*
### CONTROL PARAMETERS

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<td>Canada. Ontario OELs. [Control of Exposure to Biological or Chemical Agents] [06 2015]</td>
</tr>
<tr>
<td>Talc - Respirable dust</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Canada. Quebec OELs. [Ministry of Labor - Regulation Respecting the Quality of the Work Environment] [09 2017]</td>
</tr>
<tr>
<td>Talc – Respirable</td>
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<tr>
<td>Polyethylene - Total dust</td>
<td>TWA</td>
<td>10 mg/m³</td>
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<tr>
<td>Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
<td>Canada. British Columbia OELs. [Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended] [07 2007]</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction</td>
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### CONTROL PARAMETERS

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<th>Exposure Limit Values</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wollastonite - fibers, total dust</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Canada. Quebec OELs. [Ministry of Labor - Regulation Respecting occupational health and safety], as amended [09 2017]</td>
</tr>
<tr>
<td>Wollastonite - Fiber</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Canada. Quebec OELs. [Ministry of Labor - Regulation Respecting occupational health and safety], as amended [09 2017]</td>
</tr>
<tr>
<td>Polyethylene - Respirable fraction</td>
<td>TWA</td>
<td>3 mg/m³</td>
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<td>Canada. Quebec OELs. [Ministry of Labor - Regulation Respecting the Quality of the Work Environment] [09 2017]</td>
</tr>
<tr>
<td>m-Xylenediamine</td>
<td>CEILING</td>
<td>0.1 mg/m³</td>
<td>Canada. British Columbia OELs. [Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended] [07 2007]</td>
</tr>
<tr>
<td>m-Xylenediamine</td>
<td>CEV</td>
<td>0.1 mg/m³</td>
<td>Canada. Ontario OELs. [Control of Exposure to Biological or Chemical Agents] [11 2010]</td>
</tr>
<tr>
<td>m-Xylenediamine</td>
<td>CEILING</td>
<td>0.1 mg/m³</td>
<td>Canada. Quebec OELs. [Ministry of Labor - Regulation Respecting the Quality of the Work Environment] [09 2017]</td>
</tr>
<tr>
<td>Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction</td>
<td>TWA</td>
<td>0.025 mg/m³</td>
<td>Canada. British Columbia OELs. [Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended] [07 2007]</td>
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<tr>
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<tr>
<td>Crystalline Silica (Quartz)/ Silica Sand - Respirable dust</td>
<td>TWA</td>
<td>0.1 mg/m³</td>
<td>Canada. Quebec OELs. [Ministry of Labor - Regulation Respecting the Quality of the Work Environment] [09 2017]</td>
</tr>
<tr>
<td>Calcium Carbonate (Limestone) - Total dust.</td>
<td>STEL</td>
<td>20 mg/m³</td>
<td>Canada. British Columbia OELs. [Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended] [07 2007]</td>
</tr>
</tbody>
</table>
SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION  

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<th>Exposure Limit Values</th>
<th>Source</th>
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<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) [07 2007]</td>
</tr>
<tr>
<td>Calcium Carbonate (Limestone)</td>
<td>TWA</td>
<td>3 mg/m³</td>
<td>Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) [07 2007]</td>
</tr>
<tr>
<td>Calcium Carbonate (Limestone)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td>Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended [09 2017]</td>
</tr>
</tbody>
</table>

Appropriate Engineering Controls: Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of vapors and mist. Mechanical ventilation or local exhaust ventilation may be required.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT

Eye/face Protection: Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

Skin/Hand/Body Protection: Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

Hygiene Measures: Do not get in eyes. Observe good industrial hygiene practices. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Wash contaminated clothing before reuse. Do not get this material in contact with skin. Wash hands before breaks and immediately after handling the product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance
Physical State: Liquid
Form: Liquid
Color: Off-white
Odor: Mild pungent
Odor Threshold: No data available.

pH: No data available.

Melting Point/Freezing Point: No data available.
Initial Boiling Point and Boiling Range: No data available.
Flash Point: > 93°C > 200°F [Setaflash Closed Cup]
Evaporation Rate: Slower than Ether
Flammability (solid, gas): No

UPPER/LOWER LIMIT ON FLAMMABILITY OR EXPLOSIVE LIMITS
Flammability Limit - Upper (%): No data available.
Flammability Limit - Lower (%): No data available.
Explosive Limit - Upper (%): No data available.
Explosive Limit - Lower (%): No data available.
Vapor Pressure: No data available.
Vapor Density: Vapors are heavier than air and may travel along the floor and in the bottom of containers.
Relative Density: 1.21

Continued...
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES  

SOLUBILITY[IES]  
Solubility in Water: Practically Insoluble  
Solubility (other): No data available.  
Partition Coefficient (n-octanol/water): No data available.  
Auto-Ignition Temperature: No data available.  
Decomposition Temperature: No data available.  
Viscosity: No data available.

SECTION 10: STABILITY AND REACTIVITY  
Reactivity: No data available.  
Chemical Stability: Material is stable under normal conditions.  
Possibility of Hazardous Reactions: No data available.  
Conditions to Avoid: Avoid heat or contamination.  
Incompatible Materials: Avoid contact with acids.  
Hazardous Decomposition Products: Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: TOXICOLOGICAL INFORMATION  
INFORMATION ON LIKELY ROUTES OF EXPOSURE  
Inhalation: In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.  
Skin Contact: Causes severe skin burns.  
Eye Contact: Causes serious eye damage.  
Ingestion: May be harmful if swallowed.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS  
Inhalation: No data available.  
Skin Contact: No data available.  
Eye Contact: No data available.  
Ingestion: No data available.

INFORMATION ON TOXICOLOGICAL EFFECTS  
Acute Toxicity (list all possible routes of exposure)  
Oral  
Product: ATEmix: 2,341.9 mg/kg  
Dermal  
Product: ATEmix: 6,086.59 mg/kg  
Inhalation  
Product:  
Specified Substance(s):  
2-Methyl-1,5-pentanediylamine  
LC 50 (Rat): 4.9 mg/l  
Wollastonite  
LC 50 (Rabbit): 20.1 mg/l  
Polyethylene  
LC 50 (Rabbit): 20.1 mg/l  
r-Xylenediamine  
LC 50 (Rat): 1.16 mg/l  
Repeated Dose Toxicity  
Product: No data available.

Continued...

Note - legal notice on page 13
### Skin Corrosion/Irritation

**Product:** No data available.

**Specified Substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Nonylphenol</td>
<td>in vivo (Rabbit): Category 1B</td>
</tr>
<tr>
<td>Poly(oxypropylene) diamine</td>
<td>(Rabbit): Corrosive</td>
</tr>
<tr>
<td>Tris(dimethylaminomethyl)phenol</td>
<td>in vivo (Rabbit): Corrosive</td>
</tr>
<tr>
<td>2-Methyl-1,5-pentanediamine</td>
<td>in vivo (Rabbit): Category 1A</td>
</tr>
<tr>
<td>4-tert-Butylphenol</td>
<td>in vivo (Rabbit): Highly irritating</td>
</tr>
<tr>
<td>m-Xylenediamine</td>
<td>in vivo (Rat): Corrosive</td>
</tr>
</tbody>
</table>

### Serious Eye Damage/Eye Irritation

**Product:** No data available.

**Specified Substance(s):**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Nonylphenol</td>
<td>Rabbit, 24 - 72 hrs: Corrosive</td>
</tr>
<tr>
<td>Poly(oxypropylene) diamine</td>
<td>Rabbit, 24 hrs: Corrosive</td>
</tr>
<tr>
<td>Tris(dimethylaminomethyl)phenol</td>
<td>Rabbit, 3 d: Corrosive</td>
</tr>
<tr>
<td>4-tert-Butylphenol</td>
<td>Rabbit, 24 hrs: Category 1</td>
</tr>
</tbody>
</table>

### Respiratory or Skin Sensitization

**Product:** No data available.

### Carcinogenicity

**Product:** No data available.

### IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

#### GERM CELL MUTAGENICITY

**In Vitro**

**Product:** No data available.

**In Vivo**

**Product:** No data available.

### Reproductive Toxicity

**Product:** Suspected of damaging fertility or the unborn child.

### Specific Target Organ Toxicity - Single Exposure

**Product:** No data available.

### Specific Target Organ Toxicity - Repeated Exposure

**Product:** No data available.

### Aspiration Hazard

**Product:** No data available.

### Other Effects:

**Product:** No data available.

*Continued...*
SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY
Acute Hazards to the Aquatic Environment:

Fish

Product: No data available.

Specified Substance(s):
- 4-Nonylphenol
  LC 50 [Fathead minnow (Pimephales promelas), 96 h]: 0.13825 mg/l Mortality
- 4-tert-Butylphenol
  LC 50 [Fathead minnow (Pimephales promelas), 96 h]: 4.71 - 5.62 mg/l Mortality

Aquatic Invertebrates

Product: No data available.

Chronic Hazards to the Aquatic Environment:

Fish

Product: No data available.

Specified Substance(s):
- 4-Nonylphenol
  NOAEL [Oncorhynchus mykiss, 91 d]: 0.006 mg/l Experimental result, Key study

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability:

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential:

Bioconcentration Factor (BCF)

Product: No data available.

Specified Substance(s):
- 4-Nonylphenol
  Fathead minnow [Pimephales promelas], Bioconcentration Factor (BCF): 988 [Flow through]

Partition Coefficient n-octanol / Water (log Kow)

Product: No data available.

Mobility in Soil: No data available.

Other Adverse Effects: Very toxic to aquatic life with long lasting effects.

Continued...

Note - legal notice on page 13
SECTION 13: DISPOSAL CONSIDERATIONS

Disposal Methods:
Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Contaminated Packaging: No data available.

SECTION 14: TRANSPORT INFORMATION

Not regulated.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>Reportable Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-Nonylphenol</td>
<td>De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification only.</td>
</tr>
<tr>
<td>Nonyl Phenol</td>
<td>De minimis concentration: TSCA 5(a)(2)% One-Time Export Notification only.</td>
</tr>
</tbody>
</table>

US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E): None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

<table>
<thead>
<tr>
<th>Chemical Identity</th>
<th>OSHA Hazard(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystalline Silica [Quartz]/ Silica Sand</td>
<td>kidney effects, lung effects, immune system effects, cancer</td>
</tr>
</tbody>
</table>

CERCLA Hazardous Substance List (40 CFR 302.4): None present or none present in regulated quantities.

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA)

Hazard Categories:
Immediate [Acute] Health Hazards
Delayed [Chronic] Health Hazard
Skin Corrosion or Irritation
Serious eye damage or eye irritation
Reproductive toxicity

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)
None present or none present in regulated quantities.
SECTION 15: REGULATORY INFORMATION

US STATE REGULATIONS
US. California Proposition 65
WARNING
Cancer - www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act
Chemical Identity
Talc
Crystalline Silica (Quartz)/ Silica Sand

US. Massachusetts RTK - Substance List
Chemical Identity
4-Nonylphenol
Crystalline Silica (Quartz)/ Silica Sand

US. Pennsylvania RTK - Hazardous Substances
Chemical Identity
4-Nonylphenol
Talc

US. Rhode Island RTK
Chemical Identity
Polyethylene

INTERNATIONAL REGULATIONS
Montreal Protocol
Not applicable

Stockholm Convention
Not applicable

Rotterdam Convention
Not applicable

Kyoto Protocol
Not applicable

VOC: When appropriately mixed with the other part, product has a VOC less water and exempt solvent of: 1 g/l

<table>
<thead>
<tr>
<th>Regulation</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Regulatory VOC (less water and exempt solvent)</td>
<td>390 g/l</td>
</tr>
<tr>
<td>VOC Method 310</td>
<td>32.19 %</td>
</tr>
</tbody>
</table>

Inventory Status

<table>
<thead>
<tr>
<th>Country</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia AICS</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>Canada DSL Inventory List</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>EINECS, ELINCS or NLP</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>Japan (ENCS) List</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
</tbody>
</table>

Continued...

Note - legal notice on page 13
### SECTION 15: REGULATORY INFORMATION  
*Continued...*

<table>
<thead>
<tr>
<th>Country/Inventory</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Korea Existing Chemicals Inv. (KECI)</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>Canada NDSL Inventory</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>Philippines PICCS</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>US TSCA Inventory</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>New Zealand Inventory of Chemicals</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>Japan ISHL Listing</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>Ontario Inventory</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>China Inv. Existing Chemical Substances</td>
<td>All components in this product are listed on or exempt from the Inventory.</td>
</tr>
<tr>
<td>Mexico INSQ</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
<tr>
<td>Taiwan Chemical Substance Inventory</td>
<td>One or more components in this product are not listed on or exempt from the Inventory</td>
</tr>
</tbody>
</table>

### SECTION 16: OTHER INFORMATION

**Disclaimer:** The information contained herein only applies to the noted product. To the best of our knowledge, having been obtained through our suppliers or third parties, this information is accurate. We make no warranties, express or implied, concerning this information or the safe use of the noted product, and we disclaim liability from loss, damage, or other from the product’s use, handling, or storage. Users are responsible for verifying the fitness/suitable of the product for any purposes/applications and for confirming compliance with any/all relevant codes or regulations.

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