Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
WeatherBond PRO TPO Bonding Adhesive

Synonyms
Contact Adhesive

Chemical Family
Adhesive

Product Use
Contact Adhesive for TPO Single-ply roofing.

Restrictions on Use
For industrial use only.

Manufacturer Information
Weatherbond
P.O. Box 215
Plainfield, PA 17081
USA
Phone: +1-866-471-5125
Emergency Phone #: +1-800-424-9300 (Chemtrec)

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Aspiration Hazard - Category 1
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
Skin Sensitization - Category 1A
Carcinogenicity - Category 2
Reproductive Toxicity - Category 1B
Specific Target Organ Toxicity - Single Exposure - Category 1 (central nervous system, kidneys, liver, respiratory system)
Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (central nervous system, respiratory system)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (blood, liver)

GHS Label Elements
Symbol(s)
Signal Word
Danger

Hazard Statement(s)
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes skin irritation
Causes serious eye irritation
May cause allergic skin reaction
Suspected of causing cancer
May damage fertility or the unborn child
Causes damage to organs
May cause drowsiness or dizziness
Causes damage to organs through prolonged or repeated exposure
May cause damage to organs through prolonged or repeated exposure

Precautionary Statement(s)
Prevention
Obtain special instructions before use
Do not handle until all safety precautions have been read and understood
Keep container tightly closed
Keep away from heat/sparks/open flame/hot surfaces - No smoking
Ground/Bond container and receiving equipment
Use explosion-proof electrical/ventilating/lighting equipment
Take precautionary measures against static discharge
Use only non-sparking tools
Use only outdoors or in a well-ventilated area
Wear protective gloves/protection clothing/eye protection/face protection
Do not breathe dust/fume/gas/mist/vapours/spray
Wash thoroughly after handling
Contaminated work clothing must not be allowed out of the workplace
Do not eat, drink or smoke when using this product

Response
In case of fire: Use appropriate media to extinguish
If exposed: Call a POISON CENTER or doctor/physician
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor if you feel unwell
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy
to do. Continue rinsing

Material Name: WeatherBond PRO TPO Bonding Adhesive
Product #: 302099
Safety Data Sheet

Material Name: WeatherBond PRO TPO Bonding Adhesive

If eye irritation persists: Get medical advice/attention
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation or rash occurs: Get medical advice/attention
IF SWALLOWED: Immediately call a POISON CENTER/doctor
Do NOT induce vomiting
Specific treatment (see label)

Storage
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations

Section 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>CAS</th>
<th>Component Name</th>
<th>Percent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mixture</td>
<td>Polychloroprene</td>
<td>7-13</td>
</tr>
<tr>
<td>Mixture</td>
<td>Styrene butadiene polymer</td>
<td>0.5-1.5</td>
</tr>
<tr>
<td>Mixture</td>
<td>Chlorinated polypropylene</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Polyphenol antioxidant</td>
<td>0.1-1</td>
</tr>
<tr>
<td>1309-48-4</td>
<td>Magnesium oxide</td>
<td>0.1-1</td>
</tr>
<tr>
<td>1314-13-2</td>
<td>Zinc oxide</td>
<td>0.1-1</td>
</tr>
<tr>
<td>Trade Secret</td>
<td>Heat reactive phenolic resin</td>
<td>1-5</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>15-40</td>
</tr>
<tr>
<td>64742-89-8</td>
<td>Solvent naphtha, petroleum, light aliphatic</td>
<td>10-30</td>
</tr>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>5-10</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>Xylene</td>
<td>0.5-1.5</td>
</tr>
<tr>
<td>100-41-4</td>
<td>Ethylbenzene</td>
<td>0.1-1</td>
</tr>
</tbody>
</table>
Section 4 - FIRST AID MEASURES

Description of Necessary Measures
If exposed or concerned: Call a POISON CENTER or doctor/physician.

Inhalation
Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell.

Skin
Remove contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation or rash occurs, seek medical advice/attention.

Eyes
Rinse cautiously with water for 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.

Ingestion
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Indication of any immediate medical attention and special treatment needed
Treat symptomatically and supportively.

Most Important Symptoms/Effects
Acute
May be fatal if swallowed and enters airways. Causes skin irritation. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys, liver, and respiratory system. May cause drowsiness or dizziness.

Delayed
Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: central nervous system, respiratory system, blood, liver.

Note to Physicians
Contains: toluene, heptane.

Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media
Dry chemical, foam or carbon dioxide. Water may be ineffective.

Unsuitable Extinguishing Media
Do not use high-pressure water streams.

Special Hazards Arising from the Chemical
Highly flammable liquid and vapor. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.
Safety Data Sheet

Material Name: WeatherBond PRO TPO Bonding Adhesive

Hazardous Combustion Products
Oxides of carbon, oxides of nitrogen

Advice for firefighters
Keep away from heat/sparks/open flame/hot surfaces - No smoking. Ground/bond container and receiving equipment. Take action to prevent static discharges.

Fire Fighting Measures
Wear full protective fire fighting gear including self contained breathing apparatus (SCBA) for protection against possible exposure.

Section 6 - ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures
Wear personal protective clothing and equipment, see Section 8.

Methods and Materials for Containment and Cleaning Up
Remove all sources of ignition. Avoid breathing vapors. Ventilate affected area. Absorb with earth, sand or other non-combustible material and transfer to container. Dike for later disposal. Dispose in accordance with all applicable regulations.

Environmental Precautions
Avoid release to the environment.

Section 7 - HANDLING AND STORAGE

Precautions for Safe Handling
Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep container tightly closed. Keep away from heat, sparks, open flame, and hot surfaces - No smoking. Ground/bond container and receiving equipment. Use explosion-proof equipment. Take precautionary measures against static discharge. Use non-sparking tools. Use only outdoors or in a well-ventilated area. Vapors will travel. Prevent vapors from entering buildings through open windows or ventilation systems. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. KEEP OUT OF REACH OF CHILDREN.

Conditions for Safe Storage, Including any Incompatibilities
Store in a well-ventilated place. Keep container tightly closed
Keep cool. Store locked up. Keep away from heat and ignition sources. Do not cut, puncture, or weld on or near this container. Empty containers may contain product residue.

Incompatible Materials
Acids, bases, strong oxidizing agents
### Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

#### Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>Exposure Limit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Styrene butadiene polymer</strong></td>
<td><strong>Mixture</strong></td>
</tr>
<tr>
<td>NIOSH:</td>
<td>10 mg/m³ TWA total dust; 5 mg/m³ TWA respirable dust</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>15 mg/m³ TWA total dust; 5 mg/m³ TWA respirable fraction</td>
</tr>
<tr>
<td>Mexico:</td>
<td>10 mg/m³ TWA LMPE-PPT</td>
</tr>
<tr>
<td></td>
<td>20 mg/m³ STEL [LMPE-CT]</td>
</tr>
<tr>
<td><strong>Magnesium oxide</strong></td>
<td>1309-48-4</td>
</tr>
<tr>
<td>ACGIH:</td>
<td>10 mg/m³ TWA inhalable fraction</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>750 mg/m³ IDLH fume</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>15 mg/m³ TWA fume, total particulate</td>
</tr>
<tr>
<td>Mexico:</td>
<td>10 mg/m³ TWA LMPE-PPT as Mg fume</td>
</tr>
<tr>
<td><strong>Zinc oxide</strong></td>
<td>1314-13-2</td>
</tr>
<tr>
<td>ACGIH:</td>
<td>2 mg/m³ TWA respirable fraction</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>5 mg/m³ TWA dust and fume</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ STEL fume</td>
</tr>
<tr>
<td></td>
<td>15 mg/m³ Ceiling dust</td>
</tr>
<tr>
<td></td>
<td>500 mg/m³ IDLH</td>
</tr>
<tr>
<td>OSHA (US):</td>
<td>5 mg/m³ TWA fume; 15 mg/m³ TWA total dust; 5 mg/m³ TWA respirable fraction</td>
</tr>
<tr>
<td>Mexico:</td>
<td>5 mg/m³ TWA LMPE-PPT fume; 10 mg/m³ TWA LMPE-PPT dust</td>
</tr>
<tr>
<td></td>
<td>10 mg/m³ STEL [LMPE-CT] fume</td>
</tr>
<tr>
<td><strong>Toluene</strong></td>
<td>108-88-3</td>
</tr>
<tr>
<td>ACGIH:</td>
<td>20 ppm TWA</td>
</tr>
<tr>
<td>NIOSH:</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
</tr>
</tbody>
</table>
### Material Name: WeatherBond PRO TPO Bonding Adhesive

<table>
<thead>
<tr>
<th>Substance</th>
<th>IDLH</th>
<th>Europe</th>
<th>OSHA (US)</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td>500 ppm</td>
<td>50 ppm TWA; 192 mg/m³ TWA</td>
<td>200 ppm TWA</td>
<td>50 ppm TWA LMPE-PPT; 188 mg/m³ TWA LMPE-PPT</td>
</tr>
<tr>
<td>Skin potential for cutaneous absorption</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>NIOSH</td>
<td>250 ppm TWA; 590 mg/m³ TWA</td>
<td>250 ppm TWA</td>
<td>1000 ppm TWA LMPE-PPT; 2400 mg/m³ TWA LMPE-PPT</td>
<td></td>
</tr>
<tr>
<td>Europe</td>
<td>500 ppm TWA; 1210 mg/m³ TWA</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA (US)</td>
<td>1000 ppm TWA</td>
<td>2400 mg/m³ TWA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>1000 ppm TWA LMPE-PPT</td>
<td>1260 ppm STEL [LMPE-CT]; 3000 mg/m³ STEL [LMPE-CT]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td>125 ppm TWA; 435 mg/m³ TWA</td>
<td>100 ppm STEL</td>
<td>150 ppm STEL [LMPE-CT]; 655 mg/m³ STEL [LMPE-CT]</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>50 ppm TWA</td>
<td>435 mg/m³ TWA</td>
<td>125 ppm STEL; 545 mg/m³ STEL</td>
<td></td>
</tr>
</tbody>
</table>
Biological limit value
There are no biological limit values for any of this product's components.

Engineering Controls
Provide local exhaust ventilation system. Ensure compliance with applicable exposure limits.

Individual Protection Measures, such as Personal Protective Equipment
Eye/face protection
Wear chemical safety goggles with a faceshield to protect against skin and eye contact when appropriate.

Skin Protection
Wear work clothes with long sleeves. Wear protective shoes.

Respiratory Protection
A NIOSH approved air-purifying respirator with an appropriate cartridge or canister may be appropriate under certain circumstances where airborne concentrations are expected to exceed exposure limits.

Glove Recommendations
Wear appropriate chemical resistant gloves.

<table>
<thead>
<tr>
<th>Section 9 - PHYSICAL AND CHEMICAL PROPERTIES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Appearance</strong></td>
</tr>
<tr>
<td><strong>Odor</strong></td>
</tr>
<tr>
<td><strong>Odor Threshold</strong></td>
</tr>
<tr>
<td><strong>Melting Point</strong></td>
</tr>
<tr>
<td><strong>Freezing point</strong></td>
</tr>
<tr>
<td><strong>Boiling Point Range</strong></td>
</tr>
<tr>
<td><strong>Autoignition</strong></td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: WeatherBond PRO TPO Bonding Adhesive

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower Explosive Limit</td>
<td>1 %</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>12.8 %</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>3.2</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2500 cps</td>
</tr>
<tr>
<td>Density</td>
<td>0.849 (relative)</td>
</tr>
<tr>
<td>Decomposition</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>54.1 mmHg</td>
</tr>
<tr>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Solubility (Other)</td>
<td>Hydrocarbons</td>
</tr>
<tr>
<td>VOC</td>
<td>670 g/L</td>
</tr>
</tbody>
</table>

Other Information

No additional information available.

Section 10 - STABILITY AND REACTIVITY

Reactivity

No reactivity hazard is expected.

Chemical Stability

Stable under normal conditions of use.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

Avoid heat, flames, sparks and other sources of ignition. Avoid contact with incompatible materials.

Incompatible Materials

Acids, bases, strong oxidizing agents

Hazardous decomposition products

Oxides of carbon, oxides of nitrogen

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation

May cause drowsiness or dizziness. May cause respiratory irritation.
Safety Data Sheet

Material Name: WeatherBond PRO TPO Bonding Adhesive

Skin Contact
Causes skin irritation. May cause allergic skin reaction.

Eye Contact
Causes serious eye irritation.

Ingestion
May be fatal if swallowed and enters airways. May cause gastrointestinal irritation.

Acute and Chronic Toxicity

Component Analysis - LD50/LC50
The components of this material have been reviewed in various sources and the following selected endpoints are published:

Polychloroprene (Mixture)
Oral LD50 Rat 20000 mg/kg

Styrene butadiene polymer (Mixture)
Oral LD50 Rat 6450 mg/kg

Chlorinated polypropylene (Mixture)
Oral LD50 Rat 5000 mg/kg

Polyphenol antioxidant (Trade Secret)
Oral LD50 Rat >5000 mg/kg
Dermal LD50 Rabbit >5000 mg/kg
Inhalation LC50 Rat >165 mg/L 1 h

Magnesium oxide (1309-48-4)
Oral LD50 Rat >5000 mg/kg

Zinc oxide (1314-13-2)
Oral LD50 Rat >15000 mg/kg
Inhalation LC50 Rat >5.7 mg/L

Toluene (108-88-3)
Oral LD50 Rabbit >7000 mg/kg
Dermal LD50 Rabbit 12 - 14 g/kg
Inhalation LC50 Rat 30 - 35 mg/L

Solvent naphtha, petroleum, light aliphatic (64742-89-8)
Oral LD50 Rat >2000 mg/kg
Dermal LD50 Rabbit >2000 mg/kg
Inhalation LC50 Rat >5000 ppm 1 hr

Acetone (67-64-1)
### Oral LD50 Rat
- 5800 mg/kg

### Dermal LD50 Guinea pig
- >7246 mg/kg

### Inhalation LC50 Rat
- 32000 ppm 4 h

#### Xylene (1330-20-7)
- Oral LD50 Rat: 4300 mg/kg
- Dermal LD50 Rabbit: >2000 mg/kg
- Inhalation LC50 Rat: 29.08 mg/L 4 h

### Ethylbenzene (100-41-4)
- Oral LD50 Rat: 3500 mg/kg
- Dermal LD50 Rabbit: 15400 mg/kg
- Inhalation LC50 Rat: 4000 ppm 4 hr

### Immediate Effects
- May be fatal if swallowed and enters airways. Cause skin irritation. Causes serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys, liver, and respiratory system. May cause drowsiness or dizziness.

### Delayed Effects
- Suspected of causing cancer. May damage fertility or the unborn child. Causes damage to organs through prolonged or repeated exposure: central nervous system, respiratory system, blood, liver.

### Irritation/Corrosivity Data
- Causes skin irritation. Causes serious eye irritation.

### Respiratory Sensitization
- No data available.

### Dermal Sensitization
- May cause allergic skin reaction.

### Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>Carcinogenicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polychloroprene</td>
<td>Mixture</td>
</tr>
<tr>
<td>IARC:</td>
<td>Supplement 7 [1987]; Monograph 19 [1979] (Group 3 (not classifiable))</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
</tr>
<tr>
<td>ACIGH:</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>ACIGH:</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
</tr>
<tr>
<td>IARC:</td>
<td>Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))</td>
</tr>
</tbody>
</table>
### Section 11 - HUMAN HEALTH INFORMATION

<table>
<thead>
<tr>
<th>Substance</th>
<th>IUPAC Name</th>
<th>CAS Number</th>
<th>ACGIH</th>
<th>IARC</th>
<th>DFG</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acetone</td>
<td></td>
<td>67-64-1</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td></td>
<td>1330-20-7</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
<td>Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td></td>
<td>100-41-4</td>
<td>A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans</td>
<td>Monograph 77 [2000] (Group 2B (possibly carcinogenic to humans))</td>
<td>Category 4 (no significant contribution to human cancer)</td>
<td>Present</td>
</tr>
</tbody>
</table>

**Germ Cell Mutagenicity**
No data available.

**Reproductive Toxicity**
May damage fertility or the unborn child.

**Specific Target Organ Toxicity - Single Exposure**
central nervous system, liver, respiratory system, kidneys

**Specific Target Organ Toxicity - Repeated Exposure**
central nervous system, liver, respiratory system, blood

**Aspiration hazard**
May be fatal if swallowed and enters airways.

**Medical Conditions Aggravated by Exposure**
May cause allergic skin reaction. Aspiration into the lungs may cause chemical pneumonitis.

**Additional Data**
No additional information available.

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### Section 12 - ECOLOGICAL INFORMATION

**Ecotoxicity**

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**Issue date:** 2015-05-01  **Revision:** 1.0  **Print date:** 2018-01-29
Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Substance</th>
<th>Trade Secret</th>
<th>Fish:</th>
<th>LC50 96 h Oncorhynchus mykiss &gt;0.2 mg/L [semi-static]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyphenol antioxidant</td>
<td>Trade Secret</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Pimephales promelas 15.22 - 19.05 mg/L [flow-through] (1 day old); LC50 96 h Pimephales promelas 12.6 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.89 - 7.81 mg/L [flow-through]; LC50 96 h Oncorhynchus mykiss 14.1 - 17.16 mg/L [static]; LC50 96 h Oncorhynchus mykiss 5.8 mg/L [semi-static]; LC50 96 h Lepomis macrochirus 11 - 15 mg/L [static]; LC50 96 h Oryzias latipes 54 mg/L [static]; LC50 96 h Poecilia reticulata 28.2 mg/L [semi-static]; LC50 96 h Poecilia reticulata 50.87 - 70.34 mg/L [static]</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 72 h Pseudokirchneriella subcapitata &gt;0.2 mg/L IUCLID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna &gt;0.2 mg/L IUCLID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent naphtha, petroleum, light aliphatic</td>
<td>64742-89-8</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L IUCLID</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fish:</td>
<td>LC50 96 h Oncorhynchus mykiss 4.74 - 6.33 mL/L; LC50 96 h Pimephales promelas 6210 - 8120 mg/L [static]; LC50 96 h Lepomis macrochirus 8300 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 10294 - 17704 mg/L [static] EPA; EC50 48 h Daphnia magna 12600 - 12700 mg/L IUCLID</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### Xylene

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50 96 h Pimephales promelas 13.4 mg/L [flow-through];</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LC50 96 h Oncorhynchus mykiss 2.661 - 4.093 mg/L [static];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Oncorhynchus mykiss 13.5 - 17.3 mg/L;</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Lepomis macrochirus 13.1 - 16.5 mg/L [flow-through];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Lepomis macrochirus 19 mg/L; LC50 96 h Lepomis macrochirus 7.711 - 9.591 mg/L [static];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Pimephales promelas 23.53 - 29.97 mg/L [static];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Cyprinus carpio 780 mg/L [semi-static];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Cyprinus carpio &gt;780 mg/L; LC50 96 h Poecilia reticulata 30.26 - 40.75 mg/L [static]</td>
</tr>
</tbody>
</table>

**Fish:**

| Compound | EC50 48 h water flea 3.82 mg/L; LC50 48 h Gammarus lacustris 0.6 mg/L |

### Ethylbenzene

<table>
<thead>
<tr>
<th>Compound</th>
<th>LC50 96 h Oncorhynchus mykiss 11 - 18 mg/L [static];</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>LC50 96 h Oncorhynchus mykiss 4.2 mg/L [semi-static];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Pimephales promelas 7.55 - 11 mg/L [flow-through];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Lepomis macrochirus 32 mg/L [static];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Pimephales promelas 9.1 - 15.6 mg/L [static];</td>
</tr>
<tr>
<td></td>
<td>LC50 96 h Poecilia reticulata 9.6 mg/L [static]</td>
</tr>
</tbody>
</table>

**Fish:**

<table>
<thead>
<tr>
<th>Compound</th>
<th>EC50 72 h Pseudokirchneriella subcapitata 4.6 mg/L IUCLID;</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>EC50 96 h Pseudokirchneriella subcapitata &gt;438 mg/L IUCLID;</td>
</tr>
<tr>
<td></td>
<td>EC50 72 h Pseudokirchneriella subcapitata 2.6 - 11.3 mg/L [static] EPA;</td>
</tr>
<tr>
<td></td>
<td>EC50 96 h Pseudokirchneriella subcapitata 1.7 - 7.6 mg/L [static] EPA</td>
</tr>
</tbody>
</table>

### Algae:

| Compound | EC50 72 h Daphnia magna 1.8 - 2.4 mg/L IUCLID |

### Invertebrate:

| Compound | EC50 48 h water flea 3.82 mg/L; LC50 48 h Gammarus lacustris 0.6 mg/L |

### Persistence and Degradability

No information available for the product.

### Bioaccumulative Potential

No information available for the product.

### Mobility

No information available for the product.

### Other Toxicity

No additional information available.

---

**Section 13 - DISPOSAL CONSIDERATIONS**
Disposal Methods
Dispose of contents/container in accordance with local/regional/national/international regulations.

Section 14 - TRANSPORT INFORMATION

US DOT Information:
Shipping Name: Adhesives
Hazard Class: 3
UN/NA #: UN1133
Packing Group: II
Required Label(s): 3
Additional information: Special Provisions (172.102): 149, B52, IB2, T4, TP1, TP8

IATA Information:
UN#: UN1133

IMDG Information:
UN#: UN1133

TDG Information:
UN#: UN1133

Section 15 - REGULATORY INFORMATION

U.S. Federal Regulations
This material contains one or more of the following chemicals required to be identified under SARA Section 302 (40 CFR 355 Appendix A), SARA Section 313 (40 CFR 372.65), CERCLA (40 CFR 302.4), TSCA 12(b), and/or require an OSHA process safety plan.

<table>
<thead>
<tr>
<th>Chemical</th>
<th>CAS Number</th>
<th>SARA 313</th>
<th>CERCLA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1 % de minimis concentration</td>
<td>1000 lb final RQ; 454 kg final RQ</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td></td>
<td>6000 lb final RQ; 2727 kg final RQ</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td></td>
<td>100 lb final RQ; 45.4 kg final RQ</td>
</tr>
<tr>
<td></td>
<td></td>
<td>SARA 313: 1 % de minimis concentration</td>
<td>CERCLA: 100 lb final RQ; 45.4 kg final RQ</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: WeatherBond PRO TPO Bonding Adhesive
Product #: 302099

<table>
<thead>
<tr>
<th>Ethylbenzene</th>
<th>100-41-4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SARA 313:</td>
<td>0.1 % de minimis concentration</td>
</tr>
<tr>
<td>CERCLA:</td>
<td>1000 lb final RQ; 454 kg final RQ</td>
</tr>
</tbody>
</table>

SARA Section 311/312 (40 CFR 370 Subparts B and C)
Acute Health: Yes Chronic Health: Yes Fire: Yes Pressure: No Reactivity: No

U.S. State Regulations
The following components appear on one or more of the following state hazardous substances lists:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>CA</th>
<th>MA</th>
<th>MN</th>
<th>NJ</th>
<th>PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Styrene butadiene polymer</td>
<td>Mixture</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

The following statement(s) are provided under the California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65):
WARNING! This product contains a chemical known to the state of California to cause cancer
WARNING! This product contains a chemical known to the state of California to cause reproductive/developmental effects

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
<th>Repro/Dev. Tox</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>developmental toxicity, 1/1/1991</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td></td>
</tr>
<tr>
<td>Carc:</td>
<td></td>
<td>carcinogen, 6/11/2004</td>
</tr>
</tbody>
</table>

Canadian WHMIS Ingredient Disclosure List (IDL)
Components of this material have been checked against the Canadian WHMIS Ingredients Disclosure List. The List is composed of chemicals which must be identified on MSDSs if they are included in products which meet WHMIS criteria specified in the Controlled Products Regulations and are present above the threshold limits listed on the IDL.

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
</tr>
<tr>
<td></td>
<td>1 %</td>
</tr>
</tbody>
</table>
### Safety Data Sheet

**Material Name:** WeatherBond PRO TPO Bonding Adhesive  
**Product #:** 302099

<table>
<thead>
<tr>
<th>Component</th>
<th>Formula</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Zinc oxide</td>
<td>1314-13-2</td>
<td>1 %</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>1 %</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>1 %</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>0.1 %</td>
</tr>
</tbody>
</table>

#### Component Analysis - Inventory

**Polychloroprene (Mixture)**

<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

**Styrene butadiene polymer (Mixture)**

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</thead>
<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>NSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

**Chlorinated polypropylene (Mixture)**

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<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>DSL</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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**Polyphenol antioxidant (Trade Secret)**

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<tbody>
<tr>
<td></td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
</tbody>
</table>

**Magnesium oxide (1309-48-4)**
## Safety Data Sheet

**Material Name:** WeatherBond PRO TPO Bonding Adhesive  
**Product #:** 302099

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Zinc oxide (1314-13-2)**

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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

**Toluene (108-88-3)**

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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

**Solvent naphtha, petroleum, light aliphatic (64742-89-8)**

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<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>

**Acetone (67-64-1)**

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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</table>

**Xylene (1330-20-7)**

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</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Ethylbenzene (100-41-4)**

<table>
<thead>
<tr>
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</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
Safety Data Sheet

Material Name: WeatherBond PRO TPO Bonding Adhesive

<table>
<thead>
<tr>
<th>Yellow dye (2481-94-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Yes</td>
</tr>
</tbody>
</table>

Section 16 - OTHER INFORMATION

HMIS Rating

Health: 2* Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe * = Chronic hazard

NFPA Ratings

Health: 2 Fire: 3 Reactivity: 0
Hazard Scale: 0 = Minimal 1 = Slight 2 = Moderate 3 = Serious 4 = Severe

Summary of Changes

New SDS: April 28, 2015

Key / Legend

ACGIH - American Conference of Governmental Industrial Hygienists; ADR - European Road Transport; AU - Australia; BOD - Biochemical Oxygen Demand; C - Celsius; CA - Canada; CAS - Chemical Abstracts Service; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CLP - Classification, Labelling, and Packaging; CN - China; CPR - Controlled Products Regulations; DFG - Deutsche Forschungsgemeinschaft; DOT - Department of Transportation; DSD - Dangerous Substance Directive; DSL - Domestic Substances List; EEC - European Economic Community; EINECS - European Inventory of Existing Commercial Chemical Substances; EPA - Environmental Protection Agency; EU - European Union; F - Fahrenheit; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; ICAO - International Civil Aviation Organization; IDL - Ingredient Disclosure List; IDLH - Immediately Dangerous to Life and Health; IMDG - International Maritime Dangerous Goods; JP - Japan; Kow - Octanol/water partition coefficient; KR - Korea; LEL - Lower Explosive Limit; LLV - Level Limit Value; LOLI - List Of Lists™ - ChemADVISOR’s Regulatory Database; MAK - Maximum Concentration Value in the Workplace; MEL - Maximum Exposure Limits; NFPA - National Fire Protection Agency; NIOSH - National Institute for Occupational Safety and Health; NJTSR - New Jersey Trade Secret Registry; NTP - National Toxicology Program; NZ - New Zealand; OSHA - Occupational Safety and Health Administration; PH - Philippines; RCRA - Resource Conservation and Recovery Act; REACH- Registration, Evaluation, Authorisation, and restriction of Chemicals; RID - European Rail Transport; SARA - Superfund Amendments and Reauthorization Act; STEL - Short-term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; UEL - Upper Explosive Limit; US - United States.
Other Information

Disclaimer:
The information contained herein is based upon data and information available to us, and reflects our best professional judgment. This product may be formulated in part with components purchased from other companies. No warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of such data or information. The results to be obtained from the use thereof, or that any such use does not infringe any patent, since the information contained herein may be applied under conditions of use beyond our control and with which we may be unfamiliar, we do not assume responsibility for the results of such application. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular use.