Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name
Low VOC PVC Bonding Adhesive

Chemical Family
Adhesive

Product Use
Low VOC Adhesive

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
Serious Eye Damage/Eye Irritation - Category 2A
Skin Sensitization - Category 1A
Specific Target Organ Toxicity - Single Exposure - Category 1 (central nervous system)
Specific Target Organ Toxicity - Single Exposure - Category 2 (kidneys)
Specific Target Organ Toxicity - Single Exposure - Category 3
Specific Target Organ Toxicity - Repeated Exposure - Category 1 (central nervous system, peripheral nerve system)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (blood)

GHS Label Elements

Symbol(s)

Signal Word
Safety Data Sheet

Material Name: Low VOC PVC Bonding Adhesive

Danger

Hazard Statement(s)
Highly flammable liquid and vapor
May be fatal if swallowed and enters airways
Causes serious eye irritation
May cause allergic skin reaction
Causes damage to organs
May cause damage to organs
May cause respiratory irritation. 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
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/protective 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 or concerned: 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
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
Wash contaminated clothing before reuse
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>Trade Secret</td>
<td>Polyphenol antioxidant</td>
<td>0.1-1</td>
</tr>
<tr>
<td>7704-34-9</td>
<td>Sulfur</td>
<td>0.1-1</td>
</tr>
<tr>
<td>137-26-8</td>
<td>Tetramethylthiuram disulfide</td>
<td>0.1-1</td>
</tr>
<tr>
<td>108-88-3</td>
<td>Toluene</td>
<td>1-5</td>
</tr>
<tr>
<td>67-64-1</td>
<td>Acetone</td>
<td>40-70</td>
</tr>
<tr>
<td>78-93-3</td>
<td>Methyl ethyl ketone</td>
<td>1-5</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/physician if you feel unwell.

Skin
Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. 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
Immediately call a POISON CENTER or doctor. 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 serious eye irritation. May cause allergic skin reaction. Causes damage to central nervous system, kidneys. May cause respiratory irritation. May cause drowsiness or dizziness.
Delayed
Causes damage to organs through prolonged or repeated exposure. Central nervous system, peripheral nerve system, blood.

Note to Physicians
Contains: toluene, acetone, methyl ethyl ketone.

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.

Hazardous Combustion Products
Oxides of carbon, various hydrocarbons, nitrogen compounds, hydrogen cyanide

Advice for firefighters
Keep away from heat, sparks, open flame, and 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/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/protective clothing/eye protection/face protection. Do not breathe gas/fume/vapour/spray. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Do not eat, drink or smoke when using this product. 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. Keep separated from incompatible substances. Do not cut, puncture, or weld on or near this container.

Incompatible Materials
Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

---

**Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Component Exposure Limits**

<table>
<thead>
<tr>
<th>Compound</th>
<th>ACGIH:</th>
<th>NIOSH:</th>
<th>OSHA (US):</th>
<th>Mexico:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylthiuram disulfide</td>
<td>0.05 mg/m3 TWA inhalable fraction and vapor</td>
<td>5 mg/m3 TWA</td>
<td>500 ppm IDLH</td>
<td>1 mg/m3 TWA LMPE-PPT</td>
</tr>
<tr>
<td>Toluene</td>
<td>20 ppm TWA</td>
<td>100 ppm TWA; 375 mg/m3 TWA</td>
<td>50 ppm TWA; 192 mg/m3 TWA</td>
<td>50 ppm TWA LMPE-PPT; 188 mg/m3 TWA LMPE-PPT</td>
</tr>
</tbody>
</table>
### Biological limit value
There are no biological limit values for any of this product's components.

### Engineering Controls
Provide for sufficient ventilation. Ensure compliance with applicable exposure limits.

### Individual Protection Measures, such as Personal Protective Equipment

**Eye/face protection**
Wear chemical safety goggles. Maintain eye wash fountain and quick-drench shower in work area.

**Skin Protection**
Wear work clothes with long sleeves. White protective boots. Recommended material: protective skin cream.

**Respiratory Protection**
In case of inadequate ventilation wear respiratory protection.

**Glove Recommendations**
Wear impermeable gloves.

---

### Acetone (67-64-1)

<table>
<thead>
<tr>
<th>Source</th>
<th>TLV (TWA)</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>250 ppm</td>
<td>500 ppm</td>
</tr>
<tr>
<td>NIOSH</td>
<td>250 ppm; 590 mg/m³</td>
<td>2500 ppm IDLH (10% LEL)</td>
</tr>
<tr>
<td>Europe</td>
<td>500 ppm; 1210 mg/m³</td>
<td></td>
</tr>
<tr>
<td>OSHA (US)</td>
<td>1000 ppm; 2400 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>1000 ppm TWA LMPE-PPT; 2400 mg/m³ TWA LMPE-PPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>1260 ppm STEL [LMPE-CT]; 3000 mg/m³ STEL [LMPE-CT]</td>
<td></td>
</tr>
</tbody>
</table>

### Methyl ethyl ketone (78-93-3)

<table>
<thead>
<tr>
<th>Source</th>
<th>TLV (TWA)</th>
<th>STEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>200 ppm</td>
<td>300 ppm</td>
</tr>
<tr>
<td>NIOSH</td>
<td>200 ppm; 590 mg/m³</td>
<td>300 ppm; 885 mg/m³</td>
</tr>
<tr>
<td>Europe</td>
<td>200 ppm; 600 mg/m³</td>
<td>300 ppm; 900 mg/m³</td>
</tr>
<tr>
<td>OSHA (US)</td>
<td>200 ppm; 590 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Mexico</td>
<td>200 ppm TWA LMPE-PPT; 590 mg/m³ TWA LMPE-PPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td>300 ppm STEL [LMPE-CT]; 885 mg/m³ STEL [LMPE-CT]</td>
<td></td>
</tr>
</tbody>
</table>
Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>pale yellow or amber</td>
</tr>
<tr>
<td>Odor</td>
<td>ketone odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-95 - -87 °C (-139--124 °F)</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>56 - 111 °C (133-231 °F)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>404 °C (759 °F)</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>1.3 %</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>12.8 %</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>2.1</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Negligible</td>
</tr>
<tr>
<td>Viscosity</td>
<td>2000 cps</td>
</tr>
<tr>
<td>Density</td>
<td>0.857 (relative)</td>
</tr>
<tr>
<td>Physical State</td>
<td>liquid</td>
</tr>
<tr>
<td>Color</td>
<td>pale,yellow or amber</td>
</tr>
<tr>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>6.1</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Flash Point</td>
<td>-18 °C(-0.4°F)</td>
</tr>
<tr>
<td>Decomposition</td>
<td>Not available</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>171.9 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>Not available</td>
</tr>
<tr>
<td>VOC</td>
<td>&lt;250 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
Strong oxidizing agents, strong acids, strong bases, alkali metals, halogens

Hazardous decomposition products
Oxides of carbon, various hydrocarbons, nitrogen compounds, hydrogen cyanide

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

Inhalation
May cause respiratory irritation. May cause drowsiness or dizziness.

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

Eye Contact
Causes serious eye irritation.

Ingestion
May be fatal if swallowed and enters airways.

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:

Acrylonitrile-butadiene rubber (Mixture)
- Oral LD50 Rat >30 g/kg
- Dermal LD50 Rabbit >15 g/kg

Polyketone resin (Trade Secret)
- Oral LD50 Rat >10000 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

Sulfur (7704-34-9)
- Oral LD50 Rat >5050 mg/kg
- Dermal LD50 Rabbit >2020 mg/kg
- Inhalation LC50 Rat >5.49 mg/L

Tetramethylthiuram disulfide (137-26-8)
- Oral LD50 Rat 560 mg/kg
- Dermal LD50 Rabbit >2000 mg/kg
- Inhalation LC50 Rat 500 mg/m3 4 h

Toluene (108-88-3)
Material Name: Low VOC PVC Bonding Adhesive

Oral LD50 Rat >7000 mg/kg
Dermal LD50 Rabbit 12 - 14 g/kg
Inhalation LC50 Rat 30 - 35 mg/L

Acetone (67-64-1)
  Oral LD50 Rat 5800 mg/kg
  Dermal LD50 Guinea pig >7246 mg/kg
  Inhalation LC50 Rat 32000 ppm 4 h

Methyl ethyl ketone (78-93-3)
  Oral LD50 Rat 2737 mg/kg
  Dermal LD50 Rabbit 6480 mg/kg
  Inhalation LC50 Mouse 320 mg/L 4 h

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

Delayed Effects
Causes damage to organs through prolonged or repeated exposure: central nervous system, peripheral nerve system, blood.

Irritation/Corrosivity Data
Causes serious eye irritation. May cause respiratory irritation.

Respiratory Sensitization
No data available.

Dermal Sensitization
May cause allergic skin reaction.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>ACGIH</th>
<th>IARC</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylthiuram disulfide</td>
<td>137-26-8</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
<td>Monograph 53 [1991]; Supplement 7 [1987] (Group 3 (not classifiable))</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
<td>Monograph 71 [1999]; Monograph 47 [1989] (Group 3 (not classifiable))</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>A4 - Not Classifiable as a Human Carcinogen</td>
<td></td>
</tr>
</tbody>
</table>
Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
No data available.

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

Specific Target Organ Toxicity - Repeated Exposure
blood, peripheral nerve system, central nervous system

Aspiration hazard
May be fatal if swallowed and enters airways.

Medical Conditions Aggravated by Exposure
Tetramethylthiuram disulfide is classified as a mutagen and reproductive toxicant. However, this component is bound in the polymer portion of the adhesive after manufacturing. After installation of this adhesive, this component is ultimately consumed in the curing reaction. Therefore, this product is not classified as a mutagen or reproductive toxicant.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Avoid release to the environment.

Component Analysis - Aquatic Toxicity

<table>
<thead>
<tr>
<th>Polyphenol antioxidant</th>
<th>Trade Secret</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>LC50 96 h Oncorhynchus mykiss &gt;0.2 mg/L [semi-static]</td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 72 h Pseudokirchneriella subcapitata &gt;0.2 mg/L IUCLID</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna &gt;0.2 mg/L IUCLID</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sulfur</th>
<th>7704-34-9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td>LC50 96 h Brachydanio rerio 866 mg/L [static]; LC50 96 h Lepomis macrochirus &lt;14 mg/L [static]; LC50 96 h Oncorhynchus mykiss &gt;180 mg/L [static]</td>
</tr>
</tbody>
</table>

| Tetramethylthiuram disulfide | 137-26-8 |
### Toluene

<table>
<thead>
<tr>
<th></th>
<th>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]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td></td>
</tr>
<tr>
<td>Algae:</td>
<td>EC50 96 h Pseudokirchneriella subcapitata &gt;433 mg/L IUCLID; EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L [static] EPA</td>
</tr>
<tr>
<td>Invertebrate:</td>
<td>EC50 48 h Daphnia magna 5.46 - 9.83 mg/L [static] EPA; EC50 48 h Daphnia magna 11.5 mg/L IUCLID</td>
</tr>
</tbody>
</table>

### Acetone

<table>
<thead>
<tr>
<th></th>
<th>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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</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>
</tr>
</tbody>
</table>

### Methyl ethyl ketone

<table>
<thead>
<tr>
<th></th>
<th>LC50 96 h Pimephales promelas 3130 - 3320 mg/L [flow-through]; LC50 96 hr Pimephales promelas 2993 mg/L [static]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish:</td>
<td></td>
</tr>
<tr>
<td>Invertebrate:</td>
<td></td>
</tr>
</tbody>
</table>
Invertebrate:
EC50 48 h Daphnia magna >520 mg/L IUCLID;
EC50 48 h Daphnia magna 5091 mg/L IUCLID;
EC50 48 h Daphnia magna 4025 - 6440 mg/L [static] EPA

**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 Name</th>
<th>CAS</th>
<th>SARA 313:</th>
<th>CERCLA:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylthiuram disulfide</td>
<td>137-26-8</td>
<td>1 % de minimis concentration</td>
<td>10 lb final RQ; 4.54 kg final RQ</td>
</tr>
<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>5000 lb final RQ; 2270 kg final RQ</td>
<td></td>
</tr>
<tr>
<td>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>5000 lb final RQ; 2270 kg final RQ</td>
<td></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>Sulfur</td>
<td>7704-34-9</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Tetramethylthiuram disulfide</td>
<td>137-26-8</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>Methyl ethyl ketone</td>
<td>78-93-3</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 reproductive/developmental effects

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>Repro/Dev. Tox</td>
<td>developmental toxicity, 1/1/1991</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>Chemical</th>
<th>CAS Number</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tetramethylthiuram disulfide</td>
<td>137-26-8</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>Methyl ethyl ketone</td>
<td>78-93-3</td>
<td>1 %</td>
</tr>
</tbody>
</table>

Component Analysis - Inventory

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acrylonitrile-butadiene rubber</td>
<td>Yes</td>
<td>DSL</td>
<td>No</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>
<tr>
<td>Polyphenol antioxidant (Trade Secret)</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>
<tr>
<td>Sulfur</td>
<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>
</tr>
<tr>
<td>Tetramethylthiuram disulfide</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Toluene (108-88-3)
Safety Data Sheet

Material Name: Low VOC PVC Bonding Adhesive

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</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>

Acetone (67-64-1)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</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>

Methyl ethyl ketone (78-93-3)

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</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>

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: May 6, 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
Safety Data Sheet

Material Name: Low VOC PVC Bonding Adhesive

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.