Safety Data Sheet

Material Name: Sure-Seal EP-95 Splicing Cement

Section 1 - PRODUCT AND COMPANY IDENTIFICATION

Material Name: Sure-Seal EP-95 Splicing Cement
Synonyms: Solvent-Based Adhesive
Chemical Family: Adhesive
Product Use: Splicing adhesive for EPDM Single-Ply Roofing Membrane
Restrictions on Use: For industrial use only.

Manufacturer Information
Carlisle Coatings and Waterproofing
900 Hensley Lane
Wylie, TX 75098
www.carlisleccw.com

Medical Emergency
CHEMTREC (USA): 800-424-9300

MSDS Assistance: 972-442-6545
Technical Assistance: 888-229-2199
Customer Service: 888-229-0199

Section 2 - HAZARDS IDENTIFICATION

Classification in accordance with paragraph (d) of 29 CFR 1910.1200.
Flammable Liquids - Category 2
Skin Corrosion/Irritation - Category 2
Serious Eye Damage/Eye Irritation - Category 2A
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, kidneys, respiratory system, Hematopoietic System)
Specific Target Organ Toxicity - Repeated Exposure - Category 2 (liver, spleen, Cardiovascular system)

GHS Label Elements

Symbol(s)

Signal Word
Danger
Safety Data Sheet

Material Name: Sure-Seal EP-95 Splicing Cement

Hazard Statement(s)
Highly flammable liquid and vapor
Causes skin irritation
Causes serious eye irritation
Causes 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
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
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower
If skin irritation occurs: Get medical advice/attention
Take off contaminated clothing and wash before reuse
Call a POISON CENTER or doctor if you feel unwell
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>
</tbody>
</table>
Mixture | Silicon adsorbent mixture | 0.5-1.5  
---|---|---  
108-88-3 | Toluene | 30-60  
1330-20-7 | Xylene | 7-13  
64742-89-8 | Solvent naphtha, petroleum, light aliphatic | 5-10  
67-63-0 | Anhydrous isopropanol | 5-10  
Trade Secret | Tetraisopropyl titanate | 1-5  
Trade Secret | Phenolic resin | 0.1-1  
142-82-5 | Heptane | 5-10

**Section 4 - FIRST AID MEASURES**

**Description of Necessary Measures**
IF exposed or concerned: Get medical advice/attention.

**Inhalation**
IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Give artificial respiration if not breathing. Call a POISON CENTER or doctor if you feel unwell.

**Skin**
Remove/Take off immediately all contaminated clothing and wash it before reuse. Rinse skin with water/shower. If skin irritation occurs, get 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, do not induce vomiting. Immediately call a POISON CENTER or doctor/physician.

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

**Most Important Symptoms/Effects**

**Acute**
Causes skin irritation. Causes serious eye irritation. Causes damage to organs: central nervous system, respiratory system, kidneys, liver. May cause respiratory irritation. May cause drowsiness or dizziness. May cause gastrointestinal irritation.

**Delayed**
Causes damage to organs through prolonged or repeated exposure: central nervous system, respiratory system, kidneys, Hematopoietic System. May cause damage to organs through prolonged or repeated exposure: liver, spleen, Cardiovascular system.
Section 5 - FIRE FIGHTING MEASURES

Extinguishing Media
Suitable Extinguishing Media
Dry chemical, foam or carbon dioxide. Water may be ineffective. Use water spray to keep containers cool.

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

Special Hazards Arising from the Chemical
Highly flammable liquid and vapor. Can burn and explode easily when exposed to open flames or high heat. Vapors are heavier than air and may travel a considerable distance to a source of ignition and flashback.

Hazardous Combustion Products
Oxides of carbon, oxides of nitrogen

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. Use non-sparking tools. 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. Do not eat, drink or smoke when using this product. Keep away from heat/sparks/open flames/hot surfaces. Take precautionary measures against static discharge. Ground/bond container and receiving equipment. Use 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/vapors/spray. Wash thoroughly after handling. Contaminated work clothing should
Conditions for Safe Storage, Including any Incompatibilities
Store in a well-ventilated place. Keep container tightly closed
Keep cool
Store locked up
Keep dry. Keep away from heat and ignition sources. Keep away from incompatible materials. Do not cut, puncture, or weld on or near this container.

Incompatible Materials
Strong oxidizing agents, acids, bases

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Section 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Component Exposure Limits

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
<th>ACGIH</th>
<th>NIOSH</th>
<th>Europe</th>
<th>OSHA (US)</th>
<th>Mexico</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td></td>
<td>20 ppm TWA</td>
<td>100 ppm TWA; 375 mg/m³ TWA</td>
<td>100 ppm TWA; 192 mg/m³ TWA</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm TWA; 560 mg/m³ STEL</td>
<td>150 ppm STEL; 560 mg/m³ STEL</td>
<td>100 ppm STEL; 384 mg/m³ STEL</td>
<td>150 ppm STEL</td>
<td>150 ppm STEL [LMPE-CT]; 655 mg/m³ STEL [LMPE-CT]</td>
</tr>
<tr>
<td></td>
<td></td>
<td>500 ppm IDLH</td>
<td>100 ppm STEL</td>
<td>Possibility of significant uptake through the skin</td>
<td>300 ppm Ceiling</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm TWA; 150 ppm STEL; 375 mg/m³ TWA</td>
<td>100 ppm STEL; 384 mg/m³ STEL</td>
<td>Possibility of significant uptake through the skin</td>
<td>100 ppm TWA LMPE-PPT; 188 mg/m³ TWA LMPE-PPT</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>150 ppm STEL</td>
<td>Possibility of significant uptake through the skin</td>
<td>100 ppm TWA LMPE-PPT; 435 mg/m³ TWA LMPE-PPT</td>
<td></td>
</tr>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>100 ppm TWA</td>
<td>100 ppm TWA (pure); 221 mg/m³ TWA (pure)</td>
<td>100 ppm TWA (pure); 442 mg/m³ TWA (pure)</td>
<td>100 ppm TWA; 435 mg/m³ TWA</td>
<td>100 ppm TWA LMPE-PPT; 435 mg/m³ TWA LMPE-PPT</td>
</tr>
<tr>
<td>Substance</td>
<td>CAS Number</td>
<td>ACGIH</td>
<td>NIOSH</td>
<td>OSHA (US)</td>
<td>Mexico</td>
<td></td>
</tr>
<tr>
<td>---------------------------------</td>
<td>------------</td>
<td>-------------------</td>
<td>--------------------------------</td>
<td>-------------------------------</td>
<td>-------------------------------</td>
<td></td>
</tr>
<tr>
<td>Anhydrous isopropanol</td>
<td>67-63-0</td>
<td>200 ppm TWA</td>
<td>400 ppm STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>400 ppm TWA; 980 mg/m³ TWA</td>
<td>500 ppm STEL; 1225 mg/m³ STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>2000 ppm IDLH (10% LEL)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA (US):</td>
<td></td>
<td>400 ppm TWA; 980 mg/m³ TWA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexico:</td>
<td></td>
<td>400 ppm TWA LMPE-PPT; 980 mg/m³ TWA</td>
<td>500 ppm STEL [LMPE-CT]; 1225 mg/m³ STEL</td>
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<td></td>
<td></td>
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<tr>
<td>Magnesium oxide</td>
<td>1309-48-4</td>
<td>10 mg/m³ TWA inhalable fraction</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>750 mg/m³ IDLH fume</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA (US):</td>
<td></td>
<td>15 mg/m³ TWA fume, total particulate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexico:</td>
<td></td>
<td>10 mg/m³ TWA LMPE-PPT as Mg fume</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Heptane</td>
<td>142-82-5</td>
<td>400 ppm TWA</td>
<td>500 ppm STEL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>85 ppm TWA; 350 mg/m³ TWA</td>
<td>440 ppm Ceiling 15 min; 1800 mg/m³ Ceiling 15 min</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>750 ppm IDLH</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Europe:</td>
<td></td>
<td>500 ppm TWA; 2085 mg/m³ TWA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>OSHA (US):</td>
<td></td>
<td>500 ppm TWA; 2000 mg/m³ TWA</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Mexico:</td>
<td></td>
<td>400 ppm TWA LMPE-PPT; 1600 mg/m³ TWA LMPE-PPT</td>
<td>500 ppm STEL [LMPE-CT]; 2000 mg/m³ STEL [LMPE-CT]</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Skin - potential for cutaneous absorption</td>
<td></td>
<td></td>
<td></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 splash resistant safety goggles. Provide an emergency eye wash fountain and quick drench shower in the immediate work area.
Skin Protection
Wear appropriate work clothing. Wear protective shoes. Recommended material: protective skin cream.

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.

Section 9 - PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Appearance</th>
<th>black liquid</th>
<th>Physical State</th>
<th>liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>hydrocarbon</td>
<td>Color</td>
<td>black</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not available</td>
<td>pH</td>
<td>Not available</td>
</tr>
<tr>
<td>Melting Point</td>
<td>-95 to -47 °C (-139 to -53 °F)</td>
<td>Boiling Point</td>
<td>90 - 141 °C (194-286 °F)</td>
</tr>
<tr>
<td>Freezing point</td>
<td>Not available</td>
<td>Evaporation Rate</td>
<td>2.3</td>
</tr>
<tr>
<td>Boiling Point Range</td>
<td>Not available</td>
<td>Flammability (solid, gas)</td>
<td>Not available</td>
</tr>
<tr>
<td>Autoignition</td>
<td>230 °C (475 °F)</td>
<td>Flash Point</td>
<td>-13 °C (8 °F)</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>0.9 %</td>
<td>Decomposition</td>
<td>Not available</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>7 %</td>
<td>Vapor Pressure</td>
<td>21.8 mmHg</td>
</tr>
<tr>
<td>Vapor Density (air=1)</td>
<td>3.4</td>
<td>Specific Gravity (water=1)</td>
<td>Not available</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>negligible</td>
<td>Partition coefficient: n-octanol/water</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity</td>
<td>3600 cps</td>
<td>Solubility (Other)</td>
<td>Not available</td>
</tr>
<tr>
<td>Density</td>
<td>0.882 (relative)</td>
<td>VOC</td>
<td>605 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, acids, bases

Hazardous decomposition products
Oxides of carbon, oxides of nitrogen

Section 11 - TOXICOLOGICAL INFORMATION

Information on Likely Routes of Exposure

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

Skin Contact
Causes skin irritation.

Eye Contact
Causes serious eye irritation.

Ingestion
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:

Polyphenol antioxidant (Trade Secret)
- Oral LD50 Rat >200 mg/kg
- Dermal LD50 Rabbit >5010 mg/kg
- Inhalation LC50 Rat >165 mg/L 1 h

Toluene (108-88-3)
- Oral LD50 Rat 2600 mg/kg
- Dermal LD50 Rabbit 12000 mg/kg
- Inhalation LC50 Rat 12.5 mg/L 4 h

Xylene (1330-20-7)
- Oral LD50 Rat 3500 mg/kg
- Dermal LD50 Rabbit >4350 mg/kg
- Inhalation LC50 Rat 29.08 mg/L 4 h

Solvent naphtha, petroleum, light aliphatic (64742-89-8)
Material Name: Sure-Seal EP-95 Splicing Cement

Oral LD50 Mouse 5000 mg/kg
Dermal LD50 Rabbit 3000 mg/kg

Anhydrous isopropanol (67-63-0)
Oral LD50 Rat 1870 mg/kg
Dermal LD50 Rabbit 4059 mg/kg
Inhalation LC50 Rat 72600 mg/m³ 4 h

Tetraisopropyl titanate (Trade Secret)
Oral LD50 Rat 7460 µL/kg
Dermal LD50 Rabbit >16 mL/kg

Heptane (142-82-5)
Oral LD50 Mouse 5000 mg/kg
Dermal LD50 Rabbit 3000 mg/kg
Inhalation LC50 Rat 103 g/m³ 4 h

Immediate Effects
Causes skin irritation. Causes serious eye irritation. Causes damage to organs: central nervous system, respiratory system, kidneys, liver. May cause respiratory irritation. May cause drowsiness or dizziness. May cause gastrointestinal irritation.

Delayed Effects
Causes damage to organs through prolonged or repeated exposure: central nervous system, respiratory system, kidneys, Hematopoietic System. May cause damage to organs through prolonged or repeated exposure: liver, spleen, Cardiovascular system.

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

Respiratory Sensitization
No data available.

Dermal Sensitization
It may cause sensitization in some individuals.

Component Carcinogenicity

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
</tr>
<tr>
<td>ACGIH:</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>
<tr>
<td>Xylene</td>
<td>1330-20-7</td>
</tr>
<tr>
<td>ACGIH:</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>
Anhydrous isopropanol 67-63-0

ACGIH: A4 - Not Classifiable as a Human Carcinogen

IARC: Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977] (Group 3 (not classifiable))

Magnesium oxide 1309-48-4

ACGIH: A4 - Not Classifiable as a Human Carcinogen

Germ Cell Mutagenicity
No data available.

Reproductive Toxicity
No data available.

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

Specific Target Organ Toxicity - Repeated Exposure
central nervous system, respiratory system, kidneys, Hematopoietic System, spleen, Cardiovascular system, liver

Aspiration hazard
No data available.

Medical Conditions Aggravated by Exposure
Aspiration into the lungs may cause chemical pneumonitis.

Additional Data
No additional information available.

Section 12 - ECOLOGICAL INFORMATION

Ecotoxicity
Avoid release to the environment.

Component Analysis - Aquatic Toxicity

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

Toluene 108-88-3
### Safety Data Sheet

**Material Name:** Sure-Seal EP-95 Splicing Cement  
**Product #:** 302146

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 96 h Pimephales promelas</th>
<th>LC50 96 h Oncorhynchus mykiss</th>
<th>LC50 96 h Lepomis macrochirus</th>
<th>LC50 96 h Oryzias latipes</th>
<th>LC50 96 h Poecilia reticulata</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fish:</strong></td>
<td>15.22 - 19.05 mg/L (1 day old)</td>
<td>5.89 - 7.81 mg/L</td>
<td>11 - 15 mg/L</td>
<td>54 mg/L</td>
<td>28.2 mg/L</td>
</tr>
<tr>
<td><strong>Algae:</strong></td>
<td>EC50 96 h Pseudokirchneriella subcapitata &gt;433 mg/L</td>
<td>EC50 72 h Pseudokirchneriella subcapitata 12.5 mg/L</td>
<td>EC50 48 h Daphnia magna 5.46 - 9.83 mg/L</td>
<td>EC50 48 h Daphnia magna 11.5 mg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Invertebrate:</strong></td>
<td>EC50 48 h water flea 3.82 mg/L</td>
<td>EC50 48 h Gammarus lacustris 0.6 mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Xylene**  
1330-20-7

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 96 h Pimephales promelas</th>
<th>LC50 96 h Oncorhynchus mykiss</th>
<th>LC50 96 h Lepomis macrochirus</th>
<th>LC50 96 h Lepomis macrochirus</th>
<th>LC50 96 h Pimephales promelas</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fish:</strong></td>
<td>13.4 mg/L</td>
<td>2.661 - 4.093 mg/L</td>
<td>13.5 - 17.3 mg/L</td>
<td>19 mg/L</td>
<td>23.53 - 29.97 mg/L</td>
</tr>
<tr>
<td><strong>Algae:</strong></td>
<td>EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L</td>
<td>EC50 72 h Pseudokirchneriella subcapitata 4700 mg/L</td>
<td>EC50 48 h Daphnia magna 13299 mg/L</td>
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<tr>
<td><strong>Invertebrate:</strong></td>
<td>EC50 48 h Daphnia magna 13299 mg/L</td>
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</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Substance</th>
<th>LC50 96 h Pimephales promelas</th>
<th>LC50 96 h Oncorhynchus mykiss</th>
<th>LC50 96 h Lepomis macrochirus</th>
<th>LC50 96 h Lepomis macrochirus</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fish:</strong></td>
<td>9640 mg/L</td>
<td>11130 mg/L</td>
<td>&gt;1400000 µg/L</td>
<td></td>
</tr>
<tr>
<td><strong>Algae:</strong></td>
<td>EC50 96 h Desmodesmus subspecificus &gt;1000 mg/L</td>
<td>EC50 72 h Desmodesmus subspecificus &gt;1000 mg/L</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Invertebrate:</strong></td>
<td>EC50 48 h Daphnia magna 13299 mg/L</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Heptane 142-82-5

Fish: LC50 96 h Cichlid fish 375 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

IATA Information:
Shipping Name: ADHESIVES
Hazard Class: 3
UN#: UN1133
Packing Group: II
Required Label(s): 3

TDG Information:
Shipping Name: ADHESIVES
Hazard Class: 3
UN#: UN1133
Packing Group: II
Required Label(s):
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</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>Xylene</td>
<td>1330-20-7</td>
<td>1 % de minimis concentration</td>
<td>100 lb final RQ; 45.4 kg final RQ</td>
</tr>
<tr>
<td>Anhydrous isopropanol</td>
<td>67-63-0</td>
<td>1 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)</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>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>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>Anhydrous isopropanol</td>
<td>67-63-0</td>
<td>Yes</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>Heptane</td>
<td>142-82-5</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

| Toluene | 108-88-3 |
Repro/Dev. Tox  developmental toxicity, initial date 1/1/91
female reproductive toxicity, initial date 8/7/09

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.

Toluene  108-88-3
1 %

Anhydrous isopropanol  67-63-0
1 %

Magnesium oxide  1309-48-4
1 %

Heptane  142-82-5
1 %

Component Analysis - Inventory
Polyphenol antioxidant (Trade Secret)

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</thead>
<tbody>
<tr>
<td>Toluene (108-88-3)</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</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>
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</tbody>
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</thead>
<tbody>
<tr>
<td>Xylene (1330-20-7)</td>
<td>Yes</td>
<td>DSL</td>
<td>EIN</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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<tbody>
<tr>
<td>Solvent naphtha, petroleum, light aliphatic (64742-89-8)</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>
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</tr>
<tr>
<td>Anhydrous isopropanol (67-63-0)</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>
<tr>
<td>Tetraisopropyl titanate (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>Yes</td>
</tr>
<tr>
<td>Magnesium oxide (1309-48-4)</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>Yes</td>
</tr>
<tr>
<td>Heptane (142-82-5)</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>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: March 3, 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 -
Other Information

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