PRODUCT DATA SHEET

511 Porous Plus
Natural Look Penetrating Sealer

Water, Stain & Slip Protection for
- Grout
- Flamed, Honed & Polished Granite
- Flamed, Honed & Polished Marble
- Saltillo Tile
- Sandstone
- Concrete
- Sandblasted Grit

Uses
- Interior & Exterior
- Bathrooms
- Garages
- Special Features
  - Sanded Grout
  - Indoor & Outdoor
  - Showers
  - Patios
  - Pool Areas
  - Walls

Special Features
- Slip Resistant
- Acid Resistant
- Non Yellowing
- Weather Resistant
- Easy to Use
- Non-coating
- Freeze/Thaw Resistant
- Low Toxicity

PRODUCT DESCRIPTION

KEEP OUT OF REACH OF CHILDREN. 511 Porous Plus is a unique formulation designed for the protection of the most porous tile, stone and grout surfaces. 511 Porous Plus penetrates into the surface and forms an invisible barrier that is resistant to moisture and stains, while allowing vapor to escape. 511 Porous Plus is not a surface coating and will not alter the natural look. All surfaces are harder at this time compared to the same surface untreated. 511 Porous Plus can be used on interior and exterior applications. 511 Porous Plus is UV transparent, resists acid rain and will not yellow under any circumstances. 511 Porous Plus averages 2 to 10 times the coverage of competitive products. See coverage chart. 511 products have been formulated for or applied to freshly poured concrete to retard the evaporation of water.

511 Porous Plus is on the approved sources list of the United States Postal Service.

Test Data

Independent laboratory tests show 511 Porous Plus outperforms competitive products. Test results are available upon request for Staining, Static Coefficient of Friction, Tabor Abrasion, Surface Absorption, Freeze/Thaw, and Vapor Transmission.

NOTE: For any questions concerning grout - refer to the grout manufacturer's specifications.

511 Porous Plus will not stop acid etching.

Sample Testing

Due to the differences of each substrate, several inconspicuous test patches should be completed to assure maximum performance. User must determine suitability of the product for their intended use.

Color and Gloss Enhancement

For added color with “Textured and Non polished” surfaces, 511 Seal & Enhance or Mira Matte may be used. For polished marble, travertine, limestone and granite, Stone Polish, Mira Dust, Marble Conditioner or Granite Brite may be used as direct wet. For ceramic tile, Tile Restor or Tile Brite may be used as directed.

Slip Resistance

511 Impregnator increases the static coefficient of friction on all surfaces.

Protect Neighboring Surfaces

Always protect neighboring surfaces including wood, carpet, metal, landscaping, and other non-masonry surfaces.

NEW INSTALLATION - APPLICATION INSTRUCTIONS

Read entire label and SDS before using. 511 Porous Plus should not be thinned or thinned in any way. 511 Porous Plus should be used as is direct from approved container.

Sealing As a Grout Release

Apply 511 Porous Plus to all surfaces prior to grouting. This step will allow quick and easy cleanup after grouting. Grout can stain many surfaces if this procedure is not used prior to the grouting process. Apply 511 Porous Plus using a Mira Brush or a clean brush. Apply enough to wet the surface. (See coverage chart) Be careful not to saturate the open grout joints. Allow 511 Porous Plus to stand for approximately 5 - 10 minutes to allow the maximum penetration. Any excess sealer remaining on the surface should be removed by wiping the surface with a clean dry towel. On very porous surfaces apply another application after the previous application has dried 2-3 hours. Any excess sealer that has dried on the surface creating a residue film, may be removed by applying Residue Remover. Apply Residue Remover undiluted to the affected area with a clean dry towel. Let sit for 5 - 10 minutes to allow the residue to become saturated. With a clean, dry towel, buff to a shine. After grouting: Once grouted, make sure that all grout residue is removed from the surface with a clean sponge and water. Allow grout to dry at least 24 - 72 hours before continuing with the grouting procedure per manufacturer's specification.

After Grouting: Once grouted, make sure that all grout residue is removed from the surface with a clean sponge and water. Allow grout to dry at least 24 - 72 hours. If grout clean up is not performed effectively, an additional cleaning may be necessary to remove remaining grout residue or haze. For this procedure use Phosphoric Acid Cleaner, HDAC Heavy Duty Acidic Cleaner (Hydrochloric Acid) or Epoxy Grout Film Remover following the instructions carefully.

Grout Sealing

Once the area has completely dried, proceed with the sealing of the grout for water and stain resistance. Apply 511 Porous Plus to all grout with a paint brush. Any excess sealer that gets on the surface should be wiped off with a clean towel before it dries. On larger jobs grout can be sealed by retreating the entire area including the tile or stone surface a second time. Be careful not to allow the sealer to puddle or dry on presealed surfaces.

Residue Removal

To remove accumulated 511 Porous Plus residue, use Miracle Residue Remover as directed.

Existing Installation - Surface Preparation

Surface must be dry and free of contaminants, including previously applied sealers, dirt, lime & hard water deposits, efflorescence, rust & other heavy dirt and grime.

Floor Coating/Wax Removal: To remove existing coatings and/or waxes, use Mira Strip or Finish Sealer Stripper following the instructions carefully.

Heavy Duty Cleaning: To remove dirt and hard water deposits, efflorescence, rust, grime and other heavy dirt and grime use HDAC (Heavy Duty Acidic Cleaner) or Phosphoric Acid Cleaner as directed. For a non-acid deep clean use Liquid Poultice as directed. All strippers and/or cleaners should be thoroughly rinsed with clean water and the surface allowed to dry.

Sealing Existing Surfaces: Follow the application instructions previously mentioned, except now, seal the grout and tile or stone surfaces at the same time. When treating surfaces together, make sure that the recessed grout is saturated.

Light Cleaning: Use Tile & Stone Cleaner, Porcelain & Ceramic Tile Cleaner, Limestone/Travertine Soap & Counter Kleen as directed.

Sealer Cure Time

511 Porous Plus will be dry to the touch in 1 - 3 hours and may be used for normal foot traffic. For optimum results the area should be kept dry and free from staining materials for 24 - 72 hours.

Coverage Chart - used as directed

<table>
<thead>
<tr>
<th>Material</th>
<th>Cost per sq.ft./sq.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanded Grout</td>
<td>15-28</td>
</tr>
<tr>
<td>Limestone</td>
<td>15-28</td>
</tr>
<tr>
<td>Saltillo</td>
<td>15-45</td>
</tr>
<tr>
<td>Sandstone</td>
<td>15-45</td>
</tr>
<tr>
<td>Flagstone</td>
<td>15-45</td>
</tr>
<tr>
<td>Flamed Granite</td>
<td>15-45</td>
</tr>
<tr>
<td>Textured Marble</td>
<td>15-45</td>
</tr>
<tr>
<td>Brick</td>
<td>15-45</td>
</tr>
<tr>
<td>Concrete</td>
<td>15-45</td>
</tr>
<tr>
<td>Stucco</td>
<td>22-43</td>
</tr>
<tr>
<td>Slate</td>
<td>15-25</td>
</tr>
<tr>
<td>Terra Cotta</td>
<td>15-45</td>
</tr>
<tr>
<td>Cantera/Adoupin</td>
<td>15-45</td>
</tr>
<tr>
<td>Limestone/Travertine</td>
<td></td>
</tr>
<tr>
<td>Refinishing</td>
<td></td>
</tr>
<tr>
<td>Polished Stone</td>
<td>3000-4000 sq.ft.</td>
</tr>
</tbody>
</table>

Cost per sq.ft. is based on a suggested list price of $240/gallon. 1 gallon = 3,785 liters.

MAINTENANCE

For ongoing maintenance instructions please refer to Miracle Sealants Care Guide. Refer to the Miracle Sealants Product Recommendation Chart for specific product recommendations.

Storage

Store 511 Porous Plus in the original container, properly sealed to avoid contamination and solvent evaporation. Stored at 77°F (25°C), 511 Porous Plus will have a shelf life of 12 months.

Technical Support

For additional technical support, contact Miracle Sealants Company at 1-800-350-9021 or 626-443-6433 ext. 3013

Office Hours

Monday - Friday from 8:30 am - 5:00 pm PT.
1-866-443-6433 1-800-350-9021 • Fax: 1-626-443-1435
website: www.miraclesealants.com

Product Damaged During Transportation

If product is damaged during transportation contact Info Trac at 1-800-350-9053

Additional Products

Miracle Sealants Company offers a complete line of water & stain repellents, sealers, cleaners, polishing compounds, diamond abrasives, machinery and accessories for the tile, stone, concrete, metal, fabric and carpet professional or do-it-yourself specialist.

WARRANTY & CAUTIONS

Warranty

Instructions are a condensed guide and should not be considered complete. In the event of failure, the only obligation of Miracle Sealant Company shall be to replace such products proven to be defective. Before using, user shall determine the suitability of the product for their intended use. User assumes all risks and liability whatsoever in connection therewith. Neither seller nor manufacturer shall be liable for any injury or inability to use this product.

Caution

511 Porous Plus contains combustible petroleum distillates. All solvents must be considered toxic and must be used in a well ventilated area. Good ventilation means that fresh air is flowing in such a way as to feel a slight breeze. Open windows and use fans to circulate air. Continue to ventilate until vapors are eliminated. Exposure to high vapor concentration must be avoided. Inhalation of vapors can be harmful. Keep away from heat and open flames. Avoid prolonged contact with skin. Chemical resistant gloves should be worn at all times. Keep small children and pets out of the area until product or surface has thoroughly dried. Refer to MSDS for additional information.
1. IDENTIFICATION

Product Identifier
Product Name 511 Porous Plus

Other means of identification
SDS # MSC-011R

Product Code OMB No. 1218-0072

Recommended use of the chemical and restrictions on use

Details of the supplier of the safety data sheet
Supplier Address Miracle Sealants Company
12318 Lower Azusa Road
Arcadia, CA 91006

Emergency Telephone Number
Company Phone Number 1-626-443-6433 (Phone)
1-626-443-1435 (Fax)

24 Hour Emergency Phone Number 1-800-350-1901

Emergency Telephone (24 hr)
For product spills, leaks or exposures call:
Infotrac 1-800-535-5053 (North America) or 1-352-323-3500 (International)

2. HAZARDS IDENTIFICATION

Appearance Colorless
Physical State Liquid
Odor Solvent

Classification

Specific target organ toxicity (repeated exposure) Category 1
Aspiration toxicity Category 1
Flammable Liquids Category 4

Hazards Not Otherwise Classified (HNOC)
May be harmful in contact with skin
Causes mild skin irritation

Signal Word Danger

Hazard Statements
Causes damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Combustible liquid
Precautionary Statements - Prevention
Do not breathe dust/fume/gas/mist/vapors/spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response
Get medical advice/attention if you feel unwell
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
Do not induce vomiting
IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage
Store locked up
Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Other Hazards
Toxic to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillate</td>
<td>64742-88-7</td>
<td>Proprietary</td>
</tr>
<tr>
<td>N-Heptane</td>
<td>142-82-5</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>141-78-6</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

**If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.**

4. FIRST-AID MEASURES

First Aid Measures

General Advice
Provide this SDS to medical personnel for treatment.

Eye Contact
Flush immediately with clean, free-flowing water for 15 minutes. Consult a physician if irritation persists.

Skin Contact
Wash off with soap and clean water for 15 minutes. If irritation persists call a physician.

Inhalation
Remove person to fresh air. If not breathing, administer artificial respiration including oxygen. Provide medical attention. Call a physician or poison control center immediately.

Ingestion
Do not induce vomiting. Call physician. Keep victim’s head below hips to prevent aspiration.
Most important symptoms and effects

Symptoms

- Eyes: May cause eye irritation
- Skin: May cause mild skin irritation; drying of the skin.
- Ingestion: May cause vomiting, nausea and diarrhea.
- Inhalation: Excessive inhalation causes headache, dizziness, nausea and incoordination.

Medical conditions aggravated: Respiratory, pulmonary, liver and kidney disorders. Central nervous systems disorders. Gastrointestinal disorders.

Indication of any immediate medical attention and special treatment needed

Notes to Physician

Medical conditions generally aggravated by exposure- same as signs and symptoms of over exposure. Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
CO2, dry foam.

Unsuitable Extinguishing Media
Not determined.

Specific Hazards Arising from the Chemical
Product is combustible & may ignite if exposed to high temperature or direct flame. Heat will cause phosgene gas.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool exposed containers with water to prevent rupturing.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions
ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Wear protective clothing as described in Section 8 of this safety data sheet.

Environmental Precautions
See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for Containment
Prevent further leakage or spillage if safe to do so.

Methods for Clean-Up
Steps to be taken in case material is released or spilled: soak up with inert absorbent material. Scoop up and place in a proper waste disposal container. Use clean non-sparking tools to collect absorbed material. For waste disposal, see section 13 of the SDS.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on Safe Handling
Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Keep out of the reach of children. Wash face, hands, and any exposed skin thoroughly after handling. Wear eye/face protection. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid breathing vapors or mists. Use with adequate ventilation. Keep cool. Do not breathe vapors or spray mist. Do not eat, drink or smoke when using this product.
Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed and store in a cool, dry and well-ventilated place. Store in a cool, dry place, out of direct sunlight. Do not freeze, less than or equal to 32°F or heat above 110°F. Store locked up.

Incompatible Materials
Strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate 141-78-6</td>
<td>TWA: 400 ppm</td>
<td>TWA: 400 ppm</td>
<td>IDLH: 2000 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 1400 mg/m³</td>
<td>(vacated) TWA: 400 ppm</td>
<td>TWA: 400 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 1400 mg/m³</td>
<td>TWA: 1400 mg/m³</td>
<td></td>
</tr>
<tr>
<td>N-Heptane 142-82-5</td>
<td>STEL: 500 ppm</td>
<td>TWA: 500 ppm</td>
<td>IDLH: 750 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA: 400 ppm</td>
<td>TWA: 2000 mg/m³</td>
<td>Ceiling: 440 ppm</td>
</tr>
<tr>
<td></td>
<td>(vacated) TWA: 400 ppm</td>
<td>(vacated) TWA: 1600 mg/m³</td>
<td>15 min</td>
</tr>
<tr>
<td></td>
<td>(vacated) STEL: 500 ppm</td>
<td>(vacated) STEL: 2000 mg/m³</td>
<td>Ceiling: 1800 mg/m³</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>15 min</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 85 ppm</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>TWA: 350 mg/m³</td>
</tr>
</tbody>
</table>

Appropriate engineering controls

Engineering Controls
Local exhaust: Recommended
Mechanical exhaust: General ventilation system should be provided.

Individual protection measures, such as personal protective equipment

Eye/Face Protection
Tight fitting, splash proof safety goggles.

Skin and Body Protection
Protective gloves: Plastic or rubber, chemical resistant
Protective clothing or equipment: Chemical resistant clothing.

Respiratory Protection
Ventilate by opening all doors and windows. If exposure above the TLV or PEL require a NIOSH approved respirator equipped for the exposure or suitable respiratory protection per 29 CFR 1910.134 is required.

General Hygiene Considerations
Work hygienic practices: Wash hands thoroughly before handling foodstuffs, liquids or tobacco products. Use common sense and care around chemicals. Never mix this product with other chemicals. Consult your supervisor for all other hygienic and safety practices. All practices depend on your specific business. Directions for use normally found on label which will dictate engineering and control measures.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td>Odor</td>
<td>Solvent</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>Property</td>
<td>Values</td>
<td>Remarks</td>
<td>Method</td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not tested</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>&gt; 320 °F / 160 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>62.77 °C / 145 °F</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not tested</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Flammability (Solid, Gas) Not determined
Upper Flammability Limits Not tested
Lower Flammability Limit Not tested
Vapor Pressure Not tested
Vapor Density Not tested
Specific Gravity 0.80
Water Solubility None
Solubility in other solvents Not determined
Partition Coefficient Not determined
Auto-ignition Temperature Not determined
Decomposition Temperature Not determined
Kinematic Viscosity Not determined
Dynamic Viscosity Not determined
Explosive Properties Not determined
Oxidizing Properties Not determined
VOC Content Less than or equal to 737 g/L

10. STABILITY AND REACTIVITY

Reactivity Not reactive under normal conditions.

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid Heat, flame & sparks.

Incompatible Materials Strong oxidizers.

Hazardous Decomposition Products CO2, CO, HF.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Irritating to eyes.

Skin Contact Causes mild skin irritation. May be harmful in contact with skin. Prolonged/repeated contact may cause defatting of the skin which can lead to dermatitis.

Inhalation May cause irritation if inhaled.

Ingestion May be fatal if swallowed and enters airways. May cause irritation of gastrointestinal tract.
Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Inhalation LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillate</td>
<td>&gt; 5000 mg/kg (Rat)</td>
<td>= 3000 mg/kg (Rabbit)</td>
<td>&gt; 5.28 mg/L (Rat) 4 h</td>
</tr>
<tr>
<td>64742-88-7</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>= 5620 mg/kg (Rat)</td>
<td>&gt; 18000 mg/kg (Rabbit) &gt; 20 mL/kg (Rabbit)</td>
<td>-</td>
</tr>
<tr>
<td>141-78-6</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-Heptane</td>
<td>-</td>
<td>= 3000 mg/kg (Rabbit)</td>
<td>= 103 g/m$^3$ (Rat) 4 h</td>
</tr>
<tr>
<td>142-82-5</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Information on physical, chemical and toxicological effects

Symptoms
Please see section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity
Based on the information provided, this product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

STOT - repeated exposure
Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard
May be fatal if swallowed and enters airways.

Numerical measures of toxicity
Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity
Toxic to aquatic life with long lasting effects.

Component Information

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillate</td>
<td>450: 96 h Pseudokirchneriella subcapitata mg/L EC50</td>
<td>800: 96 h Pimephales promelas mg/L LC50 static</td>
<td>100: 48 h Daphnia magna mg/L EC50</td>
<td></td>
</tr>
<tr>
<td>64742-88-7</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>3300: 48 h Desmodesmus subspicatus mg/L EC50</td>
<td>220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 484: 96 h</td>
<td>EC50 = 1180 mg/L 5 min EC50 = 1500 mg/L 15 min EC50 = 5870 mg/L 15 min EC50 = 7400 mg/L 2 h</td>
<td>560: 48 h Daphnia magna mg/L EC50 Static</td>
</tr>
<tr>
<td>141-78-6</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-Heptane</td>
<td>375.0: 96 h Cichlid fish mg/L LC50</td>
<td></td>
<td></td>
<td>10: 24 h Daphnia magna mg/L EC50</td>
</tr>
<tr>
<td>142-82-5</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Partition Coefficient</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate</td>
<td>0.6</td>
</tr>
<tr>
<td>141-78-6</td>
<td></td>
</tr>
<tr>
<td>N-Heptane</td>
<td>4.66</td>
</tr>
<tr>
<td>142-82-5</td>
<td></td>
</tr>
</tbody>
</table>
Other Adverse Effects
Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes
Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging
Disposal should be in accordance with applicable regional, national and local laws and regulations.

US EPA Waste Number

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>RCRA</th>
<th>RCRA - Basis for Listing</th>
<th>RCRA - D Series Wastes</th>
<th>RCRA - U Series Wastes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate</td>
<td></td>
<td>Included in waste stream:</td>
<td>F039</td>
<td>U112</td>
</tr>
</tbody>
</table>

California Hazardous Waste Status

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>California Hazardous Waste Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate</td>
<td>Toxic</td>
</tr>
<tr>
<td>141-78-6</td>
<td>Ignitable</td>
</tr>
<tr>
<td>N-Heptane</td>
<td>Toxic</td>
</tr>
<tr>
<td>142-82-5</td>
<td>Ignitable</td>
</tr>
</tbody>
</table>

14. TRANSPORT INFORMATION

Note
DOT Ground: Combustible liquids are not regulated in non-bulk shipments per 49 CFR 173.150(f)(2).

DOT
Not regulated (If shipped in NON BULK packaging by ground transport)

IATA
Not regulated

IMDG
Not regulated

15. REGULATORY INFORMATION

International Inventories

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>TSCA</th>
<th>DSL</th>
<th>NDSL</th>
<th>EINECS</th>
<th>ELINCS</th>
<th>ENCS</th>
<th>IECSC</th>
<th>KECL</th>
<th>PICCS</th>
<th>AICS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillate</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>N-Heptane</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl acetate</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>Present</td>
<td>X</td>
<td>Present</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSDL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
ENCS - Japan Existing and New Chemical Substances
IECSC - China Inventory of Existing Chemical Substances
KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances
AICS - Australian Inventory of Chemical Substances
US Federal Regulations

CERCLA
This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Hazardous Substances RQs</th>
<th>CERCLA/SARA RQ</th>
<th>Reportable Quantity (RQ)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethyl acetate 141-78-6</td>
<td>5000 lb</td>
<td></td>
<td>RQ 5000 lb final RQ RQ 2270 kg final RQ</td>
</tr>
</tbody>
</table>

SARA 311/312 Hazard Categories

Acute Health Hazard: Yes
Chronic Health Hazard: Yes
Fire Hazard: Yes
Sudden Release of Pressure Hazard: No
Reactive Hazard: No

SARA 313
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

CWA (Clean Water Act)
This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

U.S. State Regulations

U.S. State Right-to-Know Regulations

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Petroleum Distillate 64742-88-7</td>
<td>X</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ethyl acetate 141-78-6</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>N-Heptane 142-82-5</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
</tbody>
</table>

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>HMIS</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Physical Hazards</th>
<th>Personal Protection</th>
<th>Personal Protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>2</td>
<td>0</td>
<td></td>
<td>Not determined</td>
<td></td>
</tr>
</tbody>
</table>

Issue Date: 01-Feb-2012
Revision Date: 12-Jan-2016
Revision Note: New format

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet