# PRODUCT DATA SHEET

## 511 Impregnator

### Natural Look Penetrating Sealer

### PRODUCT DESCRIPTION

**Keep Out of Reach of Children.** This product is formulated for sealing concrete and masonry to provide resistance against water, alkalies, acids, ultraviolet light, staining, salt ion intrusion and freeze/thaw damage. **511 Impregnator** is a unique polymerized silicone formulation designed for the protection of all medium to dense porous tile, stone and grout surfaces. **511 Impregnator** penetrates into the surface and forms an invisible barrier that is resistant to moisture and stains, while allowing vapor to escape. **511 Impregnator** is not a surface coating and will not alter the natural look. All surfaces are harder and less slippery. **511 Impregnator** can be used on interior and exterior applications. **511 Impregnator** is U.V. transparent, resists acid rain and will not yellow under any circumstances. **511 Impregnator** averages five to twenty times the coverage of competitive products. (See coverage chart). **511 Impregnator** products have been formulated for or applied to freshly poured concrete to retard the evaporation of water.

**511 Impregnator** is on the approved sources list of the United States Postal Service and is U.S.D.A. approved for incidental food contact in federal meat and poultry establishments.

### Test Data

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

**NOTE:** On more porous surfaces use **511 Porous Plus** as directed. For any questions concerning grout refer to the grout manufacturers specifications.

**511 Impregnator** 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. Use must determine suitability of the product for their intended use.

### Color Enhancement

For added color with "TEXTURED AND NON POLISHED" surfaces, **511 Seal & Enhance or Mira Matte** may be applied as directed.

### Gloss Enhancement

For a higher gloss finish on POLISHED stone surfaces, use **Water Ring & Etch Remover, Marble Conditioner, Mira Dust or Granite Brite.** For counters and furniture, use **Stone Polish.** For tile surfaces, try **Tile Brite.**

### Slip Resistance

**511 Impregnator** increases the static coefficient of friction on all surfaces. **511 Impregnator** has been used successfully for compliance with the American Disability Act’s recommendations for slip resistance (ASTM C 1028-89) on polished & honed surfaces.

### Protect Neighboring Surfaces

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

### NEW INSTALLATIONS - APPLICATION INSTRUCTIONS

Read entire label and Poly MSDS before using. **511 Impregnator** should not be diluted or thinned in any way. **511 Impregnator** should be used as is direct from approved container.

#### Before Grouting:

Apply **511 Impregnator** to all surfaces prior to grouting. This step will allow quick and easy cleanup. **511 Impregnator** can stain many surfaces if this procedure is not used prior to the grouting process. Apply **511 Impregnator** using an **Mira Brush** or a clean towel. **Apply enough to wet the surface.** (See coverage charts)

Be careful not to saturate the open grout joints. **511 Impregnator** should stand for approximately 1 - 5 minutes for maximum penetration. All excess must be removed at this time by buffing surface with a clean dry towel. This is very important on polished, glazed and porcelain surfaces. **Allow 511 Impregnator** to cure for 6 - 12 hours before continuing with the grouting procedure.

#### After Grouting:

Once grouted, make sure that all grout residue is removed from the surface with a clean sponge and water. Allow grout to cure per manufacturers specifications. 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 Acrylic Cleaner** or **Epoxy Grout Film Remover** following the instructions carefully. Once the area has completely dried, proceed with the sealing of the grout for water and stain resistance. Apply **511 Impregnator** 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 treating 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.

### 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. **Surface Coating/Wax Removal:** To remove existing coatings and/or waxes, use **Mira Strip or Finish Sealer Stripper** as directed.

**Heavy Duty Cleaning:** To remove lime and hard water deposits, efflorescence, rust, grease and other heavy dirt and grime use **HDAC** (Heavy Duty Acrylic Cleaner) or **Phosphoric Acid Cleaner** as directed.

For a non acid deep clean use **Liquid Poultsle** as directed.

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

### Existing Installation - Application Instructions

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.

### Residue Removal

To remove accumulated **511 Impregnator** residue, use **Mira Impregate Remover** as directed.

### Color and Gloss Enhancement

For color & gloss enhancement, use **Mira Matte** or **High-Gloss Finish Sealer** as directed.

### Cure Time

**511 Impregnator** 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 72 hours.

### Coverage Chart - Used as directed

<table>
<thead>
<tr>
<th></th>
<th>Cost per sq.ft./sq.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sanded Grout</td>
<td>(.06-.11)</td>
</tr>
<tr>
<td>Quarry Tile</td>
<td>(.05-.09)</td>
</tr>
<tr>
<td>Ceramic Tile</td>
<td>(.03-.05)</td>
</tr>
<tr>
<td>Glazed Tile</td>
<td>(.03-.05)</td>
</tr>
<tr>
<td>Porcelain Tile</td>
<td>(.02-.03)</td>
</tr>
<tr>
<td>Polished Granite</td>
<td>(.02-.03)</td>
</tr>
<tr>
<td>Polished Marble</td>
<td>(.02-.03)</td>
</tr>
<tr>
<td>Terrazzo</td>
<td>(.03-.05)</td>
</tr>
<tr>
<td>Brick</td>
<td>(.05-.09)</td>
</tr>
<tr>
<td>Slate</td>
<td>(.05-.09)</td>
</tr>
<tr>
<td>Quartz</td>
<td>(.03-.05)</td>
</tr>
<tr>
<td>Travertine</td>
<td>(.03-.05)</td>
</tr>
<tr>
<td>Masonry</td>
<td>(.05-.09)</td>
</tr>
</tbody>
</table>

Cost per sq.ft. is based on a suggested list price of $120/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 Impregnator** in the original container, properly sealed to avoid contamination and solvent evaporation. Stored at 77°F (25°C), **511 Impregnator** will have a shelf life of 12 months.

### Technical Support

For additional technical support, contact Miracle Sealants Company at 1-800-350-1901 or 626-443-6433 ext. 3013

### Office Hours

Monday - Friday from 8:30 am - 5:00 pm PT. 1-626-443-6433 1-800-350-1901 Fax: 1-626-443-1435 website: www.miraclesealants.com

### Product Damaged During Transportation

If product is damaged during transportation contact Info Trac @ 1-800-535-5053

### Additional Product

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.
1. IDENTIFICATION

Product Identifier
Product Name 511 Impregnator

Other means of identification
SDS # MSC-010

Recommended use of the chemical and restrictions on use.
Recommended Use Water, Stain & Slip Protection for: Quarry Tile, Ceramic Tile, Porcelain Tile, Glazed Tile, Marble, Granite, Travertine, Slate, Grout, Quartz, Brick, Terrazzo.

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
Emergency Telephone (24 hr) 1-800-350-1901

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

2. HAZARDS IDENTIFICATION

Appearance Clear, colorless liquid
Physical State Liquid
Odor Aromatic

Classification
Acute toxicity - Inhalation (Vapors) Category 3
Aspiration toxicity Category 1
Flammable Liquids Category 3

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

Signal Word
Danger

Hazard Statements
Toxic if inhaled
May be fatal if swallowed and enters airways
Flammable liquid and vapor
Precautionary Statements - Prevention
Avoid breathing dust/fume/gas/mist/vapors/spray
Use only outdoors or in a well-ventilated area
Keep away from heat/sparks/open flames/hot surfaces. — No smoking
Keep container tightly closed
Ground/bond container and receiving equipment
Use explosion-proof equipment
Use only non-sparking tools
Take precautionary measures against static discharge
Wear protective gloves/protective clothing/eye protection/face protection
Keep cool

Precautionary Statements - Response
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
Get medical attention if symptoms persist
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
Call a POISON CENTER or doctor/physician
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 container tightly closed

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

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>
</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.*

Product contains a proprietary mixture of ingredients.

4. FIRST-AID MEASURES

First Aid Measures

General Advice
Provide this SDS to medical personnel for treatment.

Eye Contact
In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.

Skin Contact
Remove contaminated clothing and launder before reuse. Wash with soap and water. Get medical attention if irritation persists.
Inhalation  
If inhaled, remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Seek medical attention.

Ingestion  
If swallowed, do not induce vomiting. Get medical attention. Never give anything by mouth to an unconscious person.

Most important symptoms and effects

**Symptoms**
- Eyes: Causes severe eye irritation
- Skin: Causes mild skin irritation, drying of the skin. May cause an allergic skin reaction.
- Ingestion: Harmful if swallowed. Causes vomiting, nausea and diarrhea.
- Inhalation: Excessive inhalation causes headache, dizziness, nausea and incoordination. Harmful if inhaled.

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

**Notes to Physician**  
Medical conditions generally aggravated by exposure- same as signs and symptoms of over exposure.

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### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**  
Dry chemical, CO2, water fog.

**Unsuitable Extinguishing Media**  
Not determined.

**Specific Hazards Arising from the Chemical**
Product is flammable. Heat will cause phosgene gas.

**Sensitivity to Static Discharge**  
Take precautionary measures against static discharge.

**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.

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### 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. Ventilate affected area.

**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: wipe, scrape or soak up in an inert material and put in a container for disposal. Use clean non-sparking tools to collect absorbed material. For waste disposal, see section 13 of the SDS.

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### 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. Keep away from heat/sparks/open flames/hot surfaces. — No smoking. Avoid breathing vapors or mists. Use only with adequate ventilation. Keep container tightly closed. Ground container and transfer equipment to eliminate static electric sparks. Take precautionary measures against static discharges. Use spark-proof tools and explosion-proof equipment. Keep cool.

Conditions for safe storage, including any incompatibilities

Storage Conditions  
Keep container tightly closed and store in a cool, dry and well-ventilated place. Precautions to be taken in handling and storing: use a ground strap. Store upright in a cool place below 77° F (25° C). Keep out of the reach of children. Store locked up.

Incompatible Materials  
Strong oxidizers.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines  
The following information is given as general guidance

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 • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State</td>
<td>Liquid</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Clear, colorless liquid</td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Colorless</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Aromatic</td>
<td></td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>Neutral</td>
<td></td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not available</td>
<td></td>
</tr>
<tr>
<td>Boiling Point/Boiling Range</td>
<td>355-395 °F / 179.44-201.66 °C</td>
<td></td>
</tr>
<tr>
<td>Flash Point</td>
<td>51.66 °C / 125 °F</td>
<td>PCC</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>&lt;0.1</td>
<td></td>
</tr>
<tr>
<td>Flammability (Solid, Gas)</td>
<td>Not determined</td>
<td></td>
</tr>
<tr>
<td>Upper Flammability Limits</td>
<td>7%</td>
<td></td>
</tr>
<tr>
<td>Lower Flammability Limit</td>
<td>1%</td>
<td></td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>5 mmHg</td>
<td>@ 20 C (Air=1)</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>5.3</td>
<td></td>
</tr>
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</table>
Specific Gravity  
0.80
Water Solubility  
insoluble
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 742 g/L
Density  
798 Kg/M3

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  
Keep away from sources of ignition such as heat, sparks or open flames.
Incompatible Materials  
Strong oxidizers.
Hazardous Decomposition Products  
Carbon monoxide, carbon dioxide, silicone dioxide, fumes of xylene, aromatic and aliphatic hydrocarbons.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information
Eye Contact  
Irritating to eyes.
Skin Contact  
May be harmful in contact with skin.
Inhalation  
Toxic 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>
</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  
This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
12. ECOLOGICAL INFORMATION

Ecotoxicity
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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 64742-88-7</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>
</tbody>
</table>

Persistence/Degradability
Not determined.

Bioaccumulation
Not determined.

Mobility
Not determined.

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.

14. TRANSPORT INFORMATION

Note
According to 49 CFR §173.150(f)(1), this material should be reclassified as "NA1993, Combustible Liquid, N.O.S." if it is shipped in bulk. DOT Ground: Combustible liquids are not regulated in non-bulk shipments per 49 CFR 173.150(f)(2).

DOT
Not determined

IATA
UN/ID No: UN1268
Proper Shipping Name: Petroleum distillates, n.o.s.
Hazard Class: 3
Packing Group: III

IMDG
UN/ID No | UN1268
Proper Shipping Name | Petroleum distillates, n.o.s.
Hazard Class | 3
Packing Group | III

15. REGULATORY INFORMATION

International Inventories

TSCA Listed
Legend:
TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/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

US Federal Regulations

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
Not determined

US 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>
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<tbody>
<tr>
<td>Petroleum Distillate</td>
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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></td>
<td>None</td>
</tr>
</tbody>
</table>

| HMIS | Health Hazards | Flammability | Physical Hazards | Personal Protection | Personal Protection |
|------|----------------|--------------|------------------|---------------------|
|      | 2              | 2            | 0                | Not determined      |

Issue Date: 01-Feb-2012
Revision Date: 21-Feb-2014
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