

# Molecule<sup>®</sup> [DS]

DRIVEWAY SEALER

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## FEATURES & BENEFITS:

Molecule [DS] Driveway Sealer from TechniSoil represents next-generation water-based sealer technology specifically designed for premium concrete and hardscape driveways. It provides robust stain resistance without leaving a film or altering the surface aesthetic. Molecule [DS] is VOC-free, ready-to-use out of the bottle, and easy to apply using a common handheld pump sprayer. One single application reduces staining from vehicle tires, debris, and most liquids while limiting freeze-thaw damage in harsh, cold weather climates.

- Next-Generation sealer technology
- Penetrating surface protectant
- Tire tracking & stain resistance
- Diamond clarity matte finish
- Reduces freeze-thaw damage
- Breathable stain repellency
- Ready-to-Use out of the bottle
- Easy pump sprayer application
- Quick drying action limits downtime
- For use on residential & commercial driveways including standard or embellished concrete, pavers, & natural stone

## COVERAGE RATES:

Concrete (standard or embellished) - 300 Ft<sup>2</sup> / Gallon

Porous pavers & natural stone - 300 Ft<sup>2</sup> / Gallon

Dense pavers & natural stone - 400 Ft<sup>2</sup> / Gallon

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TechniSoil Global Inc. encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

### 1. IDENTIFICATION

**Product name:** Molecule [DS] Driveway Sealer

**Recommended use of the chemical and restrictions on use**

**Identified uses:** Coatings product

#### COMPANY IDENTIFICATION

TechniSoil Global, Inc.  
5660 Westside Road  
Redding, CA, USA 96001

#### Customer Information Number

Toll Free: 877-356-2250

#### EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 800-424-9300  
Local Emergency Contact: 800-424-9300

### 2. HAZARD IDENTIFICATION

#### Hazard classification

Skin sensitisation - Not Classified

Carcinogenicity - Not Classified

#### Label elements

##### Hazard pictograms

Signal word: **None**

#### Hazards

##### Other hazards

Hazardous decomposition products including hydrogen fluoride and other toxic fluorinated compounds may be formed at high temperatures and during combustion. Inhalation of these compounds may result in serious lung irritation. Excessive exposure could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys.

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### 3. COMPOSITION / INFORMATION ON INGREDIENTS

**Chemical nature:** Polymers, water based. This product is a mixture

|                                  |          |
|----------------------------------|----------|
| <b>Proprietary Polymer Blend</b> | 5 - 25%  |
| <b>Water</b>                     | 75 - 95% |

### 4. FIRST AID MEASURES

#### Description of first aid measures

**Inhalation:** Move person to fresh air; if effects occur, consult a physician.

**Skin contact:** Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

**Eye contact:** Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

**Ingestion:** Consult a doctor immediately.

**Most important symptoms and effects, both acute and delayed:** Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symptoms and effects are described in Section 11: Toxicology Information.

#### Indication of any immediate medical attention and special treatment needed

**Notes to physician:** No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

### 5. FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use extinguishing media appropriate for surrounding fire.

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**Unsuitable extinguishing media:** No data available

**Special hazards arising from the substance or mixture**

**Hazardous combustion products:** Formation of toxic gases including hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride is possible during heating or in case of fire.

**Unusual Fire and Explosion Hazards:** Material can splatter above 100°C/212°F. Dried product can burn.

**Advice for firefighters**

**Fire Fighting Procedures:** No data available.

**Special protective equipment for firefighters:**

Use NIOSH/MSHA approved SCBA and bunker gear. Evolution of acidic gases may require complete wash down of protective clothing prior to removal.

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## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Ensure cleanup is done only by trained personnel wearing appropriate personal protective equipment. Ventilate area and cover with absorbent material. Collect spilled material in a container and seal. Spilled material is a slipping hazard.

**Environmental precautions:** CAUTION: Keep spills and cleaning runoff out of municipal sewers and open bodies of water.

**Methods and materials for containment and cleaning up:** Contain spills immediately with inert materials (e.g., sand, earth). Transfer liquids and solid diking material to separate suitable containers for recovery or disposal.

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## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Follow safe industrial hygiene practices and wear proper protective equipment. Use only in well ventilated areas. Wash hands thoroughly after handling. Wash clothing after use. Avoid contact with skin or eyes. Do not breathe vapor or spray. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material.

If smoking tobacco becomes contaminated by this material, exposure to toxic gases through inhalation can occur. Therefore, do not smoke in the work areas and wash hands and face after handling in order to avoid transfer of material onto tobacco.

**Molecule [DS] Driveway Sealer**For more information, visit [TechniSoil.com](http://TechniSoil.com)**Storage stability****Storage temperature:** Store material at -5°C (23°F) to 30°C (86°F).

Keep away from heat, steam, sunlight, sparks and open flame. Store containers tightly closed when not in use.

**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters**

**Exposure Limits:** No exposure limits available for this product. Excessive exposure to thermal degradation products could result in delayed pulmonary edema in some cases, and on very high exposure, damage to the liver and kidneys. These substances may include: perfluoroisobutylene (TLV = 0.01 ppm Ceiling), carbonyl fluoride (TLV = 2 ppm TWA, 5 ppm STEL), hydrogen fluoride (TLV = 2 ppm Ceiling, 0.5 ppm TWA).

**Exposure controls****Engineering controls:** Use local exhaust ventilation if material is heated above 200°C**Individual protection measures****Eye/face protection:** Use safety glasses (with side shields).**Skin protection****Hand protection:** Chemical resistant gloves and protective clothing should be worn when handling this material.**Other protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task. Eyewash station and safety shower.**Respiratory protection:** Use respirator suitable for protection when spraying this material. If material is heated above 200°C, use a positive pressure air supplied respirator or SCBA.**9. PHYSICAL AND CHEMICAL PROPERTIES**

|                       |                          |
|-----------------------|--------------------------|
| <b>Appearance</b>     |                          |
| <b>Physical state</b> | Liquid                   |
| <b>Color</b>          | Off white/pale-yellowish |

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|  |  |
|--|--|
| <b>Odor</b>                                    | Slightly sweetish                        |
| <b>Odor Threshold</b>                          | No data available                        |
| <b>pH</b>                                      | 6.5                                      |
| <b>Melting point/range</b>                     | Not Applicable                           |
| <b>Freezing point</b>                          | Approximately 0°C                        |
| <b>Boiling point (760 mmHg)</b>                | Approximately 100 °C Water               |
| <b>Flash point</b>                             | > 200°F (Closed Cup), > 209°F (Open Cup) |
| <b>Evaporation Rate (Butyl Acetate = 1)</b>    | Not available                            |
| <b>Flammability (solid, gas)</b>               | Not available                            |
| <b>Lower explosion limit</b>                   | Not Applicable                           |
| <b>Upper explosion limit</b>                   | Not Applicable                           |
| <b>Vapor Pressure</b>                          | Not available                            |
| <b>Relative Vapor Density (air = 1)</b>        | Not available                            |
| <b>Relative Density (water = 1)</b>            | 1.0 - 1.2                                |
| <b>Water solubility</b>                        | Miscible in water                        |
| <b>Partition coefficient: n- octanol/water</b> | No data available                        |
| <b>Auto-ignition temperature</b>               | Not applicable                           |
| <b>Decomposition temperature</b>               | No data available                        |
| <b>Dynamic Viscosity</b>                       | No data available                        |
| <b>Kinematic Viscosity</b>                     | No data available                        |
| <b>Explosive properties</b>                    | No data available                        |
| <b>Oxidizing properties</b>                    | No data available                        |
| <b>Molecular weight</b>                        | No data available                        |
| <b>Percent volatility</b>                      | No data available                        |

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NOTE: The physical data presented above are typical values and should not be construed as a specification.

## 10. STABILITY AND REACTIVITY

**Reactivity:** No data available

**Chemical stability:** Stable

**Possibility of hazardous reactions:** Product will not undergo polymerization.

**Conditions to avoid:** Keep away from heat, sparks, flame, high temperature

**Incompatible materials:** May react with metals, such as sodium, magnesium, aluminum at elevated temperatures (above 425 C); may react upon prolonged exposure to fluorine or in oxygen-fluorine mixtures at high temperatures and pressures. Contact with incompatible materials may result in fire or explosion.

**Hazardous decomposition products:** Decomposition or by-products and toxic by-products including hydrofluoric acid, perfluoroisobutylene, and carbonyl fluoride may be formed at very high temperatures.

## 11. TOXICOLOGICAL INFORMATION

### Acute toxicity

#### Acute oral toxicity

May be harmful if swallowed

For this family of materials:

LD50, Rat, > 2,000 mg/kg

#### Acute dermal toxicity

May cause skin irritation

#### Acute inhalation toxicity

May cause respiratory irritation

### Skin corrosion/irritation

May cause skin irritation

Skin Irritation by Draize (rabbit): Non-irritating

### Serious eye damage/eye irritation

May cause mild irritation

Eye Irritation by Kay and Calandra (rabbit): Mildly irritating

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### Sensitization

Skin by Local Lymph Node Assay (mouse): Negative

### Specific Target Organ Systemic Toxicity (Single Exposure)

Evaluation of available data suggests that this material is not an STOT-SE toxicant.

### Specific Target Organ Systemic Toxicity (Repeated Exposure)

No relevant data found.

### Carcinogenicity

None of the components in this material are listed by NTP, OSHA or IARC.

### Teratogenicity

No relevant data found.

### Reproductive toxicity

No relevant data found.

### Mutagenicity

For this family of materials: In vitro genetic toxicity studies were negative.

### Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

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## 12. ECOLOGICAL INFORMATION

### Persistence and degradability

**Biodegradability:** No data

### Bioaccumulative potential

**Bioaccumulation:** No data

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## 13. DISPOSAL CONSIDERATIONS

**Disposal methods:** Comply with Federal, State and Local regulations concerning health and environment when disposing of materials. Regulations may also apply to empty containers, liners, or rinsate. DO NOT INCINERATE unless incinerator is capable of scrubbing hydrogen fluoride and other acidic combustion products.

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## 14. TRANSPORT INFORMATION

**DOT:** Not applicable



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**Classification for SEA transport (IMO-IMDG):** Not applicable

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## 15. REGULATORY INFORMATION

### EINECS 1987 List

Fluoroalkyl methacrylate is registered by the listing of its constituent monomers.

### United States TSCA Inventory (TSCA)

All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substance Control Act (TSCA) Chemical Substance Inventory. The base polymer is subject to export notification under Section 12(b) of TSCA.

### Other Countries

The fluoropolymer of this product is listed on the chemical inventories of the following countries: Japan, Korea, Taiwan, and Switzerland.

China: Not Listed

State and local regulations may have specific requirements for this product or components of this product; consult specific state and local regulatory requirements for additional information.

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## 16. OTHER INFORMATION

For additional information, refer to the American Conference of Governmental Industrial Hygienists (ACGIH) documentation of TLV's (Threshold Limit Values) for individual components, Fluoropolymers Safe Handling Guide published by The Society of the Plastics Industry, and the DOT Emergency Response Guidebook.

The product is for the industrial use only. We do not guarantee the safety in case the product is used for the other purposes. When using the product for healthcare application or food/feed application, consult us in advance.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

TechniSoil Global Inc. urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped.

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