# Safety Data Sheet

**Issue Date:** 01-Feb-2012 **Revision Date:** 29-Jan-2016 **Version** 1

## 1. IDENTIFICATION

**Product Identifier**

**Product Name** 511 Anti-Slip Formula

**Other means of identification**

**SDS #** MSC-015R

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

**Recommended Use** Floor Anti-Slip Safety Treatment.

**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)

**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** Clear, colorless liquid **Physical state** Liquid **Odor** Aromatic

**Classification**

| | |
|---|---|
| Specific target organ toxicity (repeated exposure) | Category 1 |
| 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**

Causes damage to organs through prolonged or repeated exposure
May be fatal if swallowed and enters airways
Flammable liquid and vapor

**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
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

**Precautionary Statements - Response**
Get medical advice/attention if you feel unwell
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower
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**
Harmful to aquatic life with long lasting effects

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% |
|---|---|---|
| Proprietary | Proprietary | Proprietary |
| Proprietary | Proprietary | Proprietary |
| Proprietary | Proprietary | Proprietary |
| Proprietary | Proprietary | Proprietary |
| Proprietary | Proprietary | Proprietary |

**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**

**Eye Contact** Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Call a physician if irritation persists.

**Skin Contact** IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Wash skin with soap and water. If skin irritation persists, call a physician.

**Inhalation** Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

**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** May be harmful in contact with skin. Direct contact with eyes may cause irritation or damage. Direct contact with skin may cause irritation, defatting, or possible dermatitis. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause nausea, vomiting, stomach ache, and diarrhea. INHALATION: Central nervous system effects may include one or more of following: headache, dizziness, loss of appetite, weakness and loss of coordination.

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

**Notes to Physician** Medical conditions aggravated: Respiratory, pulmonary, liver and kidney disorders. Central nervous systems disorders. Gastrointestinal disorders. Any material aspirated during vomiting may cause lung injury; therefore, to evacuate stomach contents, this should be done by means least likely to cause aspiration.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Dry chemical. Carbon dioxide (CO2). Water spray (fog). Use water spray to cool fire-exposed containers.

**Unsuitable Extinguishing Media** Not determined.

**Specific Hazards Arising from the Chemical**

Flammable liquid and vapor.

**Hazardous Combustion Products** Phosgene. Carbon monoxide, carbon dioxide, silicone dioxide, fumes of xylene, aromatic and aliphatic hydrocarbons.

**Explosion Data**

**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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment as required. Remove all sources of ignition.

**Environmental precautions**

**Environmental precautions** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS.

**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.

## 7. HANDLING AND STORAGE

**Precautions for safe handling**

**Advice on Safe Handling** 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. Ground/bond container and receiving equipment. Use non-sparking hand tools and explosion-proof electrical equipment. Take precautionary measures against static discharges. Wear protective gloves/protective clothing and eye/face protection.

**Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. 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.

**Incompatible Materials** Incompatible with oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Exposure Guidelines**

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|---|---|---|---|
| Proprietary | STEL: 1000 ppm | TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$<br>(vacated) TWA: 1000 ppm<br>(vacated) TWA: 1900 mg/m$^3$ | IDLH: 3300 ppm<br>TWA: 1000 ppm<br>TWA: 1900 mg/m$^3$ |
| Proprietary | TWA: 100 ppm | TWA: 500 ppm<br>TWA: 2900 mg/m$^3$<br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 525 mg/m$^3$ | IDLH: 20000 mg/m$^3$<br>Ceiling: 1800 mg/m$^3$ 15 min<br>TWA: 350 mg/m$^3$ |
| Proprietary | STEL: 200 ppm<br>TWA: 150 ppm | TWA: 150 ppm<br>TWA: 710 mg/m$^3$<br>(vacated) TWA: 150 ppm<br>(vacated) TWA: 710 mg/m$^3$<br>(vacated) STEL: 200 ppm<br>(vacated) STEL: 950 mg/m$^3$ | IDLH: 1700 ppm<br>TWA: 150 ppm<br>TWA: 710 mg/m$^3$<br>STEL: 200 ppm<br>STEL: 950 mg/m$^3$ |
| Proprietary | TWA: 400 ppm | TWA: 400 ppm<br>TWA: 1400 mg/m$^3$<br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 1400 mg/m$^3$ | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 1400 mg/m$^3$ |
| Proprietary | STEL: 500 ppm<br>TWA: 400 ppm | TWA: 500 ppm<br>TWA: 2000 mg/m$^3$<br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 1600 mg/m$^3$<br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 2000 mg/m$^3$ | IDLH: 750 ppm<br>Ceiling: 440 ppm 15 min<br>Ceiling: 1800 mg/m$^3$ 15 min<br>TWA: 85 ppm<br>TWA: 350 mg/m$^3$ |

**Appropriate engineering controls**

**Engineering Controls** Apply technical measures to comply with the occupational exposure limits. Ensure adequate ventilation, especially in confined areas. Eyewash stations. Showers. Prevent build-up of vapors by opening all doors and windows to achieve cross-ventilation.

**Individual protection measures, such as personal protective equipment**

| | |
|---|---|
| **Eye/Face Protection** | Splash proof chemical safety goggles. |
| **Skin and Body Protection** | Protective gloves: Plastic or rubber, chemical resistant<br>Protective clothing or equipment: Chemical resistant clothing. |
| **Respiratory Protection** | Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection. |
| **General Hygiene Considerations** | Handle in accordance with good industrial hygiene and safety practice. 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**

| | | | |
|---|---|---|---|
| **Physical state** | Liquid | | |
| **Appearance** | Clear, colorless liquid | **Odor** | Aromatic |
| **Color** | Colorless | **Odor Threshold** | Not determined |

| **Property** | **Values** | **Remarks • Method** |
|---|---|---|
| **pH** | ~7 | |
| **Melting Point/Freezing Point** | Not available | |
| **Boiling Point/Boiling Range** | 179-201 °C / 355-395 °F | |
| **Flash Point** | 51 °C / 125 °F | PCC |
| **Evaporation Rate** | < 0.1 | |
| **Flammability (Solid, Gas)** | Liquid-not applicable | |
| **Flammability Limits in Air** | | |
| **Upper Flammability Limits** | 7% | |
| **Lower Flammability Limit** | 1% | |
| **Vapor Pressure** | 0.5 mmHg | @ 20 C |
| **Vapor Density** | 5.3 | (Air=1) |
| **Relative Density** | 0.8 | |
| **Water Solubility** | Insoluble in water | |
| **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 | |

**Other Information**

| | |
|---|---|
| **VOC Content** | 738 g/l |
| **Density** | 798 Kg/cubic meter |

## 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**
Avoid all possible sources of ignition. Heat, flames and sparks.

**Incompatible Materials**
Incompatible with oxidizing agents.

**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** Avoid contact with eyes.

**Skin Contact** May be harmful in contact with skin.

**Inhalation** Do not inhale.

**Ingestion** May be fatal if swallowed and enters airways. Do not taste or swallow.

**Component Information**

| Chemical Name | ATEmix (oral) | ATEmix (dermal) | Inhalation LC50 |
|---|---|---|---|
| Proprietary | > 5000 mg/kg ( Rat ) | = 3000 mg/kg ( Rabbit ) | > 5.28 mg/L ( Rat ) 4 h |
| Proprietary | > 24134 mg/kg ( Rat ) | > 16 mL/kg ( Rabbit ) | - |
| Proprietary | = 7060 mg/kg ( Rat ) | - | = 124.7 mg/L ( Rat ) 4 h |
| Proprietary | = 1780 mg/kg ( Rat ) | = 4 mL/kg ( Rabbit ) | - |
| Proprietary | = 10768 mg/kg ( Rat ) | > 17600 mg/kg ( Rabbit ) | = 390 ppm ( Rat ) 4 h |
| Proprietary | = 5620 mg/kg ( Rat ) | > 18000 mg/kg ( Rabbit ) > 20 mL/kg ( Rabbit ) | - |
| Proprietary | - | = 3000 mg/kg ( Rabbit ) | = 103 g/m$^3$ ( Rat ) 4 h |

**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** Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage. This product may contain significant amounts of polynuclear aromatic hydrocarbons (PAH's) which have been shown to cause skin cancer after prolonged and frequent contact with the skin of test animals. Brief or intermittent skin contact with this product is not expected to have serious effects if it is washed from the skin. While skin cancer is unlikely to occur in human beings following use of this product, skin contact and breathing of mists or vapors should be reduced to a minimum. This product contains a mixture of petroleum hydrocarbons called middle distillates (which means they boil between approximately 350F and 700F). Because of this broad description, many products are considered middle distillates yet they are produced by a variety of different petroleum refining processes. Toxicology data developed on some middle distillates found that they caused positive responses in some mutagenicity tests and caused skin cancer when repeatedly applied to mice over their lifetime. This product may contain some middle distillates found to cause those adverse effects.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|---|---|---|---|---|
| Proprietary | A3 | Group 1 | Known | X |

**Legend**

***ACGIH (American Conference of Governmental Industrial Hygienists)***
*A3 - Animal Carcinogen*
***IARC (International Agency for Research on Cancer)***
*Group 1 - Carcinogenic to Humans*
***NTP (National Toxicology Program)***
*Known - Known Carcinogen*
***OSHA (Occupational Safety and Health Administration of the US Department of Labor)***
*X - Present*

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

**Aspiration hazard** May be fatal if swallowed and enters airways.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

**Component Information**

| Chemical Name | Algae/aquatic plants | Fish | Crustacea |
|---|---|---|---|
| Proprietary | 450: 96 h Pseudokirchneriella subcapitata mg/L EC50 | 800: 96 h Pimephales promelas mg/L LC50 static | 100: 48 h Daphnia magna mg/L EC50 |
| Trade Secret | | 12.0 - 16.0: 96 h Oncorhynchus mykiss mL/L LC50 static 100: 96 h Pimephales promelas mg/L LC50 static 13400 - 15100: 96 h Pimephales promelas mg/L LC50 flow-through | 10800: 24 h Daphnia magna mg/L EC50 2: 48 h Daphnia magna mg/L EC50 Static 9268 - 14221: 48 h Daphnia magna mg/L LC50 |
| Trade Secret | 674.7: 72 h Desmodesmus subspicatus mg/L EC50 | 62: 96 h Leuciscus idus mg/L LC50 static 17 - 19: 96 h Pimephales promelas mg/L LC50 flow-through 100: 96 h Lepomis macrochirus mg/L LC50 static | 72.8: 24 h Daphnia magna mg/L EC50 |
| Trade Secret | 3300: 48 h Desmodesmus subspicatus mg/L EC50 | 220 - 250: 96 h Pimephales promelas mg/L LC50 flow-through 352 - 500: 96 h Oncorhynchus mykiss mg/L LC50 semi-static 484: 96 h Oncorhynchus mykiss mg/L LC50 flow-through | 560: 48 h Daphnia magna mg/L EC50 Static |
| Trade Secret | | 375.0: 96 h Cichlid fish mg/L LC50 | 10: 24 h Daphnia magna mg/L EC50 |

**Persistence/Degradability**
Not determined.

**Bioaccumulation**
Not determined.

**Mobility**

| Chemical Name | Partition Coefficient |
|---|---|
| Trade Secret | -0.32 |
| Trade Secret | 1.81 |
| Trade Secret | 0.6 |
| Trade Secret | 4.66 |

**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**

| Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|---|---|---|---|
| Trade Secret | | Included in waste stream: F039 | | U112 |

**California Hazardous Waste Status**

| Chemical Name | California Hazardous Waste Status |
|---|---|
| Trade Secret | Toxic<br>Ignitable |
| Trade Secret | Toxic |
| Trade Secret | Toxic<br>Ignitable |
| Trade Secret | Toxic<br>Ignitable |

## 14. TRANSPORT INFORMATION

**Note** Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances.

**DOT** Please contact manufacturer for most current information

**IATA** Please contact manufacturer for most current information

**IMDG**
**Marine Pollutant** This material may meet the definition of a marine pollutant

## 15. REGULATORY INFORMATION

**International Inventories**

| Chemical Name | TSCA | DSL/NDSL | EINECS/ELINCS | ENCS | IECSC | KECL | PICCS | AICS |
|---|---|---|---|---|---|---|---|---|
| Proprietary | X | X | X | | X | Present | X | X |
| Trade Secret | X | X | X | Present | X | Present | X | X |
| Trimethylated Silica | X | X | X | Present | X | Present | X | X |
| Silicone | X | X | X | | X | Present | X | X |
| Trade Secret | X | X | X | Present | X | Present | X | X |
| Trade Secret | X | X | X | Present | X | Present | X | X |
| Trade Secret | X | X | X | Present | X | Present | X | X |
| Trade Secret | X | X | X | Present | X | Present | X | X |
| Trade Secret | X | X | X | Present | X | Present | X | X |
| Trade Secret | X | X | X | | X | Present | X | X |

**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*

***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)

| Chemical Name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---|---|---|---|
| Trade Secret | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
| Trade Secret | 5000 lb | | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

**SARA 313**

Not determined

**CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---|---|---|---|---|
| Trade Secret | 5000 lb | | | X |

**US State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals.

| Chemical Name | California Proposition 65 |
|---|---|
| Proprietary - | Carcinogen<br>Developmental |

**U.S. State Right-to-Know Regulations**

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|---|---|---|---|
| Proprietary | X | | |
| Proprietary | X | X | X |
| Proprietary | X | X | X |
| Proprietary | X | X | X |
| Proprietary | X | X | X |
| Proprietary | X | X | X |

## 16. OTHER INFORMATION

| | | | | |
|---|---|---|---|---|
| **NFPA** | **Health Hazards** | **Flammability** | **Instability** | **Special Hazards** |
| | 1 | 2 | 0 | Not determined |
| **HMIS** | **Health Hazards** | **Flammability** | **Physical hazards** | **Personal Protection** |
| | Not determined | Not determined | Not determined | Not determined |

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**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**