



# Safety Data Sheet

Issue Date: 15-Jan-2020

Revision Date: 15-Jan-2020

Version 1

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

**Product Name** Misco TMI41 Barricade II Floor Drain Treatment

**Other means of identification**

**SDS #** Misco TMI41

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

**Recommended Use** Floor Drain Treatment.  
**Uses Advised Against** For industrial and institutional use only

**Details of the supplier of the safety data sheet**

**Supplier Address**  
Misco Industrial  
109 Space Park N  
Goodlettsville, TN 37072

**Emergency Telephone Number**

**Company Phone Number** 1-615-334-1861(to reorder)  
**Emergency Telephone (24 hr)** INFOTRAC 1-800-535-5053 (North America)  
1-703-741-5500 (International)

## 2. HAZARDS IDENTIFICATION

**Appearance** Clear, orange liquid                      **Physical State** Liquid                      **Odor** Citrus

**Classification**

Flammable Liquids	Category 3
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**Signal Word**

**Warning**

**Hazard Statements**

Flammable liquid and vapor.



**Precautionary Statements - Prevention**

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**

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.  
 IN CASE OF FIRE: Use CO2, dry chemical, or foam for extinction.

**Precautionary Statements - Storage**

Store in a well-ventilated place. Keep cool.

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-% *
D-limonene	94266-47-4	40-50

\*\*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**

<b>Eye Contact</b>	Immediately flush with plenty of water for up to 15 minutes. Get prompt medical attention.
<b>Skin Contact</b>	Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If symptoms develop, seek medical attention.
<b>Inhalation</b>	Remove to fresh air. If symptoms develop, seek medical attention. If not breathing, give artificial respiration.
<b>Ingestion</b>	Do not induce vomiting. Get medical attention immediately. If vomiting occurs, have victim lean forward to reduce risk of aspiration.

**Most important symptoms and effects**

<b>Symptoms</b>	May cause eye irritation. May cause mild skin irritation. Prolonged or repeated contact may dry or defat skin leading to inflammation. Breathing vapors may irritate nose, throat and lungs.
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**Indication of any immediate medical attention and special treatment needed**

<b>Notes to Physician</b>	Treat symptomatically.
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### 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use dry chemical, foam, or carbon dioxide.

**Unsuitable Extinguishing Media** Do not use water except as a mist or foam as it may spread the burning material.

**Specific Hazards Arising from the Chemical**

Rags soaked with this product may spontaneously ignite; to avoid this danger, used rags should be soaked with water and/or stored in a container full of soapy water. In a fire, closed containers of this product may burst or rupture due to pressure build-up, greatly increasing fire hazard.

**Hazardous Combustion Products** When strongly heated, as in a fire, this product may produce oxides of carbon.

**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. All containers should be cooled with water to prevent vapor pressure build up.

**6. ACCIDENTAL RELEASE MEASURES**

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

**Personal Precautions** Use personal protective equipment as required.

**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** Small spills: Soak up with an inert absorbent and place in designated disposal container. Rinse area thoroughly. Large spills: Remove sources of ignition and ventilate area. Soak up with an inert absorbent and place in designated disposal container. Rinse area thoroughly.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Advice on Safe Handling** Handle in accordance with good industrial hygiene and safety practice. 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 non-sparking tools. Take precautionary measures against static discharges. Wear protective gloves/protective clothing and eye/face protection.

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

**Storage Conditions** Store in a well-ventilated place. Keep cool. Keep container tightly closed.

**Incompatible Materials** Oxidizing agents such as bleach; Strong acids.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Exposure Guidelines** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

**Appropriate engineering controls**

**Engineering Controls** Mechanical ventilation recommended when handling in enclosed, tight spaces.

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

**Eye/Face Protection** Safety glasses or safety goggles are recommended.

**Skin and Body Protection** Chemical resistant gloves are recommended.  
**Respiratory Protection** None required if good ventilation is maintained.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Citrus
<b>Appearance</b>	Clear, orange liquid	<b>Odor Threshold</b>	Not determined
<b>Color</b>	Orange		
<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks • Method</u></b>	
<b>pH</b>	Not available		
<b>Melting Point/Freezing Point</b>	Not determined		
<b>Boiling Point/Boiling Range</b>	175 °C / 347 °F		
<b>Flash Point</b>	47-52 °C / 115-125 °F		
<b>Evaporation Rate</b>	< 1	(BA=1)	
<b>Flammability (Solid, Gas)</b>	liquid-Not applicable		
<b>Upper Flammability Limits</b>	6.1%		
<b>Lower Flammability Limit</b>	0.7%		
<b>Vapor Pressure</b>	1 mm Hg		
<b>Vapor Density</b>	4.7	(Air=1)	
<b>Specific Gravity</b>	0.840	(Water = 1)	
<b>Water Solubility</b>	insoluble		
<b>Solubility in other solvents</b>	Not determined		
<b>Partition Coefficient</b>	Not determined		
<b>Auto-ignition Temperature</b>	Not determined		
<b>Decomposition Temperature</b>	Not determined		
<b>Kinematic Viscosity</b>	Not determined		
<b>Dynamic Viscosity</b>	Not determined		
<b>Explosive Properties</b>	Not determined		
<b>Oxidizing Properties</b>	Not determined		
<b>VOC Content</b>	<53%		

**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.

Conditions to Avoid

Keep out of reach of children.

Incompatible Materials

Oxidizing agents such as bleach; Strong acids.

Hazardous Decomposition Products

When strongly heated, as in a fire, this product may produce oxides of carbon.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

**Product Information**

- Eye Contact**                                      Avoid contact with eyes.
- Skin Contact**                                    Avoid contact with skin.
- Inhalation**                                        Do not inhale.
- Ingestion**                                        Do not ingest.

**Component Information**

**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.

**Numerical measures of toxicity**

Not determined

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

Not determined.

**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**

<b>Note</b>	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.
<b>DOT</b>	Not Regulated
<b>IATA</b>	
<b>UN/ID No</b>	UN2319
<b>Proper Shipping Name</b>	Terpene hydrocarbons, N.O.S., (contain: Limonene mixture)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>IMDG</b>	
<b>UN/ID No</b>	UN2319
<b>Proper Shipping Name</b>	Terpene hydrocarbons, N.O.S., (contain: Limonene mixture)
<b>Hazard Class</b>	3
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	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
D-limonene				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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355).

#### 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).

### US State Regulations

#### California Proposition 65

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

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

This product does not contain any substances regulated under applicable state right-to-know regulations.

**16. OTHER INFORMATION**

<b><u>NFPA</u></b>	<b>Health Hazards</b> Not determined	<b>Flammability</b> Not determined	<b>Instability</b> Not determined	<b>Special Hazards</b> Not determined
<b><u>HMIS</u></b>	<b>Health Hazards</b> 2	<b>Flammability</b> 2	<b>Physical Hazards</b> 0	<b>Personal Protection</b> B

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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 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**