

## 1. PRODUCT AND COMPANY IDENTIFICATION

### Product Identifier

Product Name BARRICADE III

### Other means of identification

Product Code 1028

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

Recommended use DRAIN TREATMENT  
Uses Advised Against For industrial and institutional use only.

### Details of the supplier of the safety data sheet

Company Name Blue Cardinal Chemical, LLC  
3670 Scarlet Oak Blvd.  
St. Louis, MO 63122  
800-325-3312

### Emergency telephone number

Emergency Telephone CHEMTEL 1-800-255-3924

## 2. HAZARDS IDENTIFICATION

### Classification

#### GHSClassification

Flammable liquids	Category 3
Skin irritation	Category 2
Eye Irritation	Category 2B
Skin sensitization	Category 1
Aspiration hazard	Category 1

### Label elements

### Emergency Overview

## DANGER

### Hazard statements

Flammable liquid and vapor. Causes skin irritation. Causes eye irritation. May cause an allergic skin reaction. May be fatal if swallowed and enters airways.



**Appearance:** Liquid**Physical state:** Liquid**Odor:** Characteristic**Precautionary Statements - Prevention**

Avoid breathing mist/vapors/spray. Contaminated work clothing must not be allowed out of the workplace. Do NOT induce vomiting.

**Precautionary Statements - Response**

If eye irritation persists: Get medical advice/attention. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water shower. If on skin: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/ attention. If swallowed: Immediately call a poison center/doctor.

**In Case of Fire**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Ground/bond container and receiving equipment. Take precautionary measure against static discharge. Use only non-sparking tools.

**Precautionary Statements - Storage**

Keep away from heat/sparks/open flames/hot surfaces-no smoking. Keep container tightly closed. Store in a well ventilated place. Keep cool. Store locked up.

**Precautionary Statements - Disposal**

Take off contaminated clothing and wash it before reuse. Wash contaminated clothing before reuse. Wash thoroughly after handling. Wear protective gloves/eye protection/face protection. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazards not otherwise classified (HNOC)****Other Information**

- Not available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NO.	WEIGHT - %	TRADE SECRET
Methyl ester, soybean oil	67784-80-9	20-70	*
D-Limonene	5989-27-5	20-70	*

**\*The exact percentage (concentration) of composition has been withheld as a trade secret.**

### 4. FIRST AID MEASURES

**First aid measures****General Advice**

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

**Skin Contact**

Wash off with soap and plenty of water. Consult a physician.

**Eye Contact**

Flush eyes with water as a precaution.

**Inhalation**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**Ingestion**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

**Most important symptoms and effect, both acute and delayed****Symptoms**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11

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

Note to physicians

No data available

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

**Specific hazards arising from the chemical**

Carbon oxides

**Protective equipment and precautions for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

**Further Information**

Use water spray to cool unopened containers.

**6. ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures****Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions****Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

**Methods and material for containment and cleaning up****Methods for containment & cleaning up**

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

**7. HANDLING AND STORAGE****Precautions for safe handling****Advice on safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

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

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

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

CHEMICAL NAME	CAS	OSHA TWA	OSHA STEL	ACGIH TWA	ACGIH STEL
Methyl ester, soybean oil	67784-80-9	No data available	No data available	No data available	No data available
D-Limonene	5989-27-5	No data available	No data available	20 ppm	No data available

<b><u>Appropriate engineering controls</u></b>	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
<b>Engineering Controls</b>	
<b><u>Individual protection measures, such as personal protective equipment</u></b>	
<b>Eye/face protection</b>	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
<b>Skin and body protection</b>	Handle with nitrile rubber gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. Complete suit protecting against chemicals, Flame retardant anti-static protective clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
<b>Respiratory protection</b>	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).
<b>Control of Environmental Exposure</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid
<b>Odor</b>	Characteristic

<u>Property</u>	<u>Values</u>
<b>pH</b>	No data available
<b>Viscosity</b>	No data available
<b>Melting point/freezing point</b>	Melting point/range: -74.3 °C (-101.7 °F)
<b>Flash point</b>	50 °C (122 °F)
<b>Boiling point / boiling range</b>	175 - 176 °C (347 - 349 °F)
<b>Evaporation rate</b>	No data available
<b>Flammability (solid, gas) r</b>	No data available
<b>Upper Explosion limit:</b>	6.1%
<b>Lower Explosion limit:</b>	0.7%
<b>Vapor pressure</b>	50 hPa (38 mmHg) at ca.50 °C (122 °F)
<b>Vapor density</b>	4.70 - (Air = 1.0)
<b>Water solubility</b>	immiscible
<b>Partition coefficient</b>	log Pow: 4.2
<b>Autoignition temperature</b>	245 °C (473 °F) at 995 hPa (746 mmHg)
<b>Decomposition temperature</b>	No data available
<b>Relative Density</b>	0.84 g/cm <sup>3</sup> at 25 °C (77 °F)

### Other Information

<b>Density Lbs/Gal</b>	No data available
<b>VOC Content (%)</b>	No data available

## 10. STABILITY AND REACTIVITY

**Reactivity**

No data available

**Chemical stability**

Stable under recommended storage conditions.

**Possibility of Hazardous Reactions**

No data available

**Conditions to avoid**

Heat, flames and sparks.

**Incompatible materials**

Strong oxidizing agents

**Hazardous Decomposition Products**

No data available

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information: Methyl ester, soybean oil**

<b>Inhalation</b>	No data available
<b>Eye contact</b>	May be irritating
<b>Skin Contact</b>	May be irritating
<b>Ingestion</b>	No data available

**Product Information: D-Limonene**

<b>Inhalation</b>	No data available
<b>Eye contact</b>	Result: No eye irritation
<b>Skin Contact</b>	Result: May cause sensitization by skin contact.
<b>Ingestion</b>	No data available

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50	CAS
Methyl ester, soybean oil	No data available	No data available	No data available	67784-80-9
D-Limonene	Rat - 4,400 mg/kg	Rabbit - > 5,000 mg/kg	No data available	5989-27-5

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

<b>Sensitization</b>	Result: May cause sensitization by skin contact.
<b>Germ cell mutagenicity</b>	Result: negative
<b>Carcinogenicity</b>	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (D-Limonene)
<b>Reproductive toxicity</b>	No data available

**12. ECOLOGICAL INFORMATION**

CHEMICAL NAME	CAS	TOXICITY
Methyl ester, soybean oil	67784-80-9	No data available
D-Limonene	5989-27-5	flow-through test LC50 - Pimephales promelas (fathead minnow) - 0.72 mg/l - 96 h Immobilization EC50 - Daphnia magna (Water flea) - 0.36 mg/l - 48 h Toxicity to bacteria EC50 - Sludge Treatment - 3.94 mg/l

**13. DISPOSAL CONSIDERATIONS****Waste treatment methods**

**Disposal of wastes** Dispose of contents/container in accordance with local/regional/national/international regulations.

**14. TRANSPORT INFORMATION**

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. For additional information, please contact the distributor listed in section 1 of this SDS.

**DOT**

<b>UN/ID No.</b>	UN1993
<b>Proper shipping name</b>	Flammable Liquids, n.o.s. (Terpenes) Marine Pollutant
<b>Hazard Class</b>	3
<b>Packing Group</b>	III

**15. REGULATORY INFORMATION****US Federal Regulations****SARA 313**

No components were identified

**SARA 311/312 Hazard Categories**

Fire Hazard, Acute Health Hazard, Chronic Health Hazard

**CERCLA**

No components were identified

**US State Regulations****California Proposition 65**

No components were identified

This product and/or its components are listed on the Toxic Substances Control Act (TSCA) inventory.

**16. OTHER INFORMATION**

**Issue Date** 3/23/2023  
**Revision Date** N/A  
**Revision Note**

**N/A = Not Applicable; N/D = Not Determined**

**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**