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Version 1

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier**

Product Name BioSafe Plus

**Other means of identification**

Product Code 1525

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

Recommended use Enzyme/Bacteria Drain Maintainer  
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**

**OSHA REGULATORY STATUS**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation

Category 2

**Label elements**

#### Emergency Overview

### WARNING

**Hazard statements**

Causes serious eye irritation.



**Appearance:** No data available

**Physical state:** Liquid

**Odor:** Pleasant



### Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection.

### Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician. Specific Treatment (See Section 4 on the SDS). IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. 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 you feel unwell. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Drink plenty of water. Immediately call a POISON CENTER or doctor/physician.

### Precautionary Statements - Storage

Keep containers tightly closed in a dry, cool and well-ventilated place.

### Precautionary Statements - Disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Hazards not otherwise classified (HNOC)

#### Other Information

- Harmful to aquatic life with long lasting effects
- Harmful to aquatic life

Unknown Acute Toxicity

11.44% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| CHEMICAL NAME                         | CAS NO.     | WEIGHT - % | TRADE SECRET |
|---------------------------------------|-------------|------------|--------------|
| Viable Bacteria                       | Proprietary | 7-13       | *            |
| Nonylphenol Polyethylene Glycol Ether | 127087-87-0 | 1-5        | *            |

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

## 4. FIRST AID MEASURES

### First aid measures

#### Skin Contact

Wash off immediately with plenty of water. Wash off immediately with plenty of water for at least 15 minutes. Wash off immediately with soap and plenty of water. If skin irritation persists, see a physician.

#### Eye Contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

#### Inhalation

Remove to fresh air.

#### Ingestion

Clean mouth with water and drink afterwards plenty of water.

### Most important symptoms and effect, both acute and delayed

#### Symptoms

Any additional important symptoms and effects are described in Section 11: Toxicology Information.

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

#### Note to physicians

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media:** Caution: Use of water spray when fighting fire may be inefficient.

### Specific hazards arising from the chemical

No Information available.

#### Explosion data

Sensitivity to Mechanical Impact

None.

Sensitivity to Static Discharge

None.

### 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**

Ensure adequate ventilation, especially in confined areas.

### Environmental precautions

**Environmental precautions**

Do not allow into any storm sewer drains, lakes, streams, ponds, estuaries, oceans or other surface water bodies. Should not be released into the environment. Dispose of according to all local city, state and federal rules and regulations.

### Methods and material for containment and cleaning up

**Methods for containment**

Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up**

Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling**

Handle in accordance with good industrial hygiene and safety practice.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible materials**

None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

| CHEMICAL NAME       | ACGIH TLV  | OSHA PEL | NIOSH IDLH |
|---------------------|--|----------|------------|
| Citral<br>5392-40-5 | TWA: 5 ppm inhalable fraction<br>and vapor<br>S* | -        | -          |

### Appropriate engineering controls

#### Engineering Controls

Showers, Eyewash stations & Ventilation systems.

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

#### Eye/face protection

Wear safety glasses with side shields (or goggles). Avoid contact with eyes.

#### Skin and body protection

No Information available. Wear protective gloves and protective clothing if needed.

#### Respiratory protection

If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

#### General Hygiene

Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                |   |
|----------------|---|
| Physical state | Liquid  |
| Appearance     | No Information available Free flowing powder. |
| Color          | Blue  |
| Odor           | Pleasant                                      |
| Odor threshold | No Information available                      |

### Property

### Values

|                               |                          |
|-------------------------------|--------------------------|
| pH                            | 7.0 - 9.0                |
| Specific Gravity              | 1.01                     |
| Viscosity                     | Water Thin               |
| Melting point/freezing point  | No Information available |
| Flash point                   | No Information available |
| Boiling point / boiling range | No Information available |
| Evaporation rate              | No Information available |
| Flammability (solid, gas)     | No data available        |
| Flammability Limits in Air    |                          |
| Upper flammability limit:     | No Information available |
| Lower flammability limit:     | No Information available |
| Vapor pressure                | No Information available |
| Vapor density                 | No Information available |
| Water solubility              | Complete                 |
| Partition coefficient         | No Information available |
| Autoignition temperature      | No Information available |
| Decomposition temperature     | No Information available |

### Other Information

|                 |      |
|-----------------|------|
| Density Lbs/Gal | 8.4  |
| VOC Content (%) | 0.02 |

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Possibility of Hazardous Reactions

None under normal processing.

### Conditions to avoid

Extremes of temperature and direct sunlight.

### Incompatible materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|              |  |
|--------------|--|
| Inhalation   | No data available. Avoid breathing vapors or mists.                            |
| Eye contact  | Severely irritating to eyes.   |
| Skin Contact | No data available. Avoid contact with skin.                                    |
| Ingestion    | No data available. Not an expected route of exposure. Do not taste or swallow. |

| CHEMICAL NAME  | ORAL LD50                                    | DERMAL LD50                                     | INHALATION LC50 |
|--|--|---|-----------------|
| Nonylphenol Polyethylene Glycol Ether<br>127087-87-0 | = 1310 mg/kg ( Rat )<br>= 2590 mg/kg ( Rat ) | = 2 mL/kg ( Rabbit )<br>= 1780 µL/kg ( Rabbit ) | -               |

### Information on toxicological effects

Symptoms No Information available.

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

|                          |                           |
|--------------------------|---------------------------|
| Sensitization            | No Information available. |
| Germ cell mutagenicity   | No Information available. |
| Carcinogenicity          | No Information available. |
| Reproductive toxicity    | No Information available. |
| STOT - single exposure   | No Information available. |
| STOT - repeated exposure | No Information available. |
| Chronic toxicity         | No Information available. |
| Target organ effects     | No Information available. |
| Aspiration hazard        | No Information available. |

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 11.44 % of the mixture consists of ingredient(s) of unknown toxicity

The following values are calculated based on chapter 3.1 of the GHS document.

ATEmix (oral) 64,069 mg/kg  
ATEmix (dermal) 43,900 mg/kg

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| CHEMICAL NAME                                   | ORAL LD50  | DERMAL LD50  | INHALATION LC50                    |
|---|--|--|------------------------------------|
| Citral<br>5392-40-5                             | 16: 72 h Desmodesmus subspicatus<br>mg/L EC50<br>19: 96 h Desmodesmus subspicatus<br>mg/L EC50 | -  | 7: 48 h Daphnia magna mg/L<br>EC50 |
| Orange Terpenes<br>5989-27-5                    | -  | 0.619 - 0.796: 96 h Pimephales<br>promelas mg/L LC50 flow-<br>through<br>35: 96 h Oncorhynchus mykiss<br>mg/L LC50 | -                                  |
| Phenol, 2-methoxy-4-<br>(2-propenyl)<br>97-53-0 | -  | 13: 96 h Danio rerio mg/L LC50<br>semi-static  | -                                  |

**Persistence and degradability**

No Information available.

**Bioaccumulation**

No Information available.

**Other adverse effects**

No Information available.

**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** Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

**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**

Not regulated

**15. REGULATORY INFORMATION**

**International Inventories**

TSCA Complies  
DSL/NDSL Complies

**Legend:**

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**US Federal Regulations**

**SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| CHEMICAL NAME                                       | SARA 313-THRESHOLD VALUES % |
|---|-----------------------------|
| Nonylphenol Polyethylene Glycol Ether - 127087-87-0 | 1.0                         |

**SARA 311/312 Hazard Categories**

Acute health hazard No  
Chronic Health Hazard No  
Fire hazard No  
Sudden release of pressure hazard No  
Reactive Hazard No

**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)

**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). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**US State Regulations**

**California Proposition 65**

This product contains chemicals known to the state of California to cause cancer, or birth defects or other reproductive harm

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

| Chemical Name                    | New Jersey | Massachusetts | Pennsylvania |
|----------------------------------|------------|---------------|--------------|
| Dipropylene Glycol<br>25265-71-8 | -          | -             | x            |
| Orange Terpenes<br>5989-27-5     | x          | -             | -            |
| Acid Blue Dye<br>3844-45-9       | -          | x             | -            |

**U.S. EPA Label Information**

EPA Pesticide Registration Number Not Applicable

**16. OTHER INFORMATION**

|             |                |   |              |   |                  |   |                                  |   |
|-------------|----------------|---|--------------|---|------------------|---|----------------------------------|---|
| <u>NFPA</u> | Health hazards | 1 | Flammability | 0 | Instability      | 0 | Physical and Chemical Properties | - |
| <u>HMIS</u> | Health hazards | 1 | Flammability | 0 | Physical Hazards | 0 | Personal protection              | x |

**Issue Date** 07-Aug-2022  
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**Revision Note** No information available

**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**