

## 1. Identification

**Product identifier** BioFire<sup>®</sup> COVID-19 Test (6 Pack)

**Product Code:** 423745

**Hazardous Product** FilmArray<sup>®</sup> Sample Buffer

**Product Code:** FAIV-GEN-0003

**Recommended Use** In vitro diagnostic medical device

### Manufacturer/Importer/Supplier/Distributor information

**Company name** BioFire Defense, LLC

**Address** 79 West 4500 South, Suite 14, Salt Lake City, Utah 84107, USA

**Telephone** 801-262-3592

**Emergency Telephone number** 1-800-424-9300 (Chemtrec) or Call your local Poison Control Center

## 2. Hazard(s) identification

**Physical hazards**

Not classified.

**Health hazards**

Acute toxicity, oral

Category 4

Skin corrosion/irritation

Category 2

Serious eye damage/eye irritation

Category 1

**Environmental hazards**

Hazardous to the aquatic environment, long-term hazard

Category 1

**OSHA defined hazards**

Not classified.

**Label elements**



**Signal word**

Danger

**Hazard statement**

Very toxic to aquatic life with long lasting effects. Harmful if swallowed. Causes skin irritation. Causes serious eye damage.

**Precautionary statement**

**Prevention**

Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response**

Collect spillage. If skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention.

**Storage**

Not available.

**Disposal**

Dispose of waste and residues in accordance with local authority requirements.

**Hazard(s) not otherwise classified (HNOC)**

None known.

**Supplemental information**

15% of the mixture consists of component(s) of unknown acute oral toxicity. 70% of the mixture consists of component(s) of unknown acute dermal toxicity. 70% of the mixture consists of component(s) of unknown acute inhalation toxicity. 55% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

## 3. Composition/information on ingredients

**Mixtures**

| Chemical name                            | Common name and synonyms | CAS number | %         |
|--|--------------------------|------------|-----------|
| GUANIDINIUM CHLORIDE                     |                          | 50-01-1    | 50 - < 60 |
| Triton X100                              |                          | 9002-93-1  | 10 - < 20 |
| Other components below reportable levels |                          |            | 30 - < 40 |

## 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.   |
| <b>Skin contact</b>   | Wash with plenty of soap and water. For minor skin contact, avoid spreading material on unaffected skin. Get medical attention if irritation develops and persists.  |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.                                      |
| <b>Ingestion</b>  | IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.                                |
| <b>Indication of immediate medical attention and special treatment needed</b> | Symptoms may be delayed.   |
| <b>General information</b>  | Show this safety data sheet to the doctor in attendance.   |

## 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Foam. Powder.   |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| <b>Specific hazards arising from the chemical</b>                    | During fire, gases hazardous to health may be formed.   |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| <b>Fire fighting equipment/instructions</b>                          | Move containers from fire area if you can do so without risk.                                 |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| <b>General fire hazards</b>  | No unusual fire or explosion hazards noted.   |

## 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | For personal protection, see section 8 of the SDS. Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.   |
| <b>Methods and materials for containment and cleaning up</b>               | Prevent product from entering drains.<br><br>Large Spills: Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.<br><br>Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. |
| <b>Environmental precautions</b>   | Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.                         |

## 7. Handling and storage

|   |  |
|---|--|
| <b>Precautions for safe handling</b>                                | Do not get this material in contact with eyes. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices. |
| <b>Conditions for safe storage, including any incompatibilities</b> | Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).   |

## 8. Exposure controls/personal protection

|  |  |
|--|--|
| <b>Occupational exposure limits</b>  | This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.   |
| <b>Biological limit values</b>   | No biological exposure limits noted for the ingredient(s).   |
| <b>Appropriate engineering controls</b>                                      | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower. |
| <b>Individual protection measures, such as personal protective equipment</b> |  |
| <b>Eye/face protection</b>   | Avoid contact with eyes. Face shield is recommended. Wear safety glasses with side shields (or goggles). Eye wash fountain is recommended.   |
| <b>Skin protection</b>   |  |
| <b>Hand protection</b>   | Use protective gloves made of: Nitrile.  |
| <b>Other</b>   | Avoid contact with the skin. Wear suitable protective clothing.  |
| <b>Respiratory protection</b>  | No personal respiratory protective equipment normally required.  |
| <b>Thermal hazards</b>   | Not available.   |
| <b>General hygiene considerations</b>  | Wash hands after handling and before eating. Keep away from food and drink.  |

## 9. Physical and chemical properties

|   |                                     |
|---|-------------------------------------|
| <b>Appearance</b>                                   |                                     |
| <b>Physical state</b>                               | Liquid.                             |
| <b>Form</b>   | Not available.                      |
| <b>Color</b>  | Clear colorless or nearly colorless |
| <b>Odor</b>   | Not available.                      |
| <b>Odor threshold</b>                               | Not available.                      |
| <b>pH</b>   | Not available.                      |
| <b>Melting point/freezing point</b>                 | Not available.                      |
| <b>Initial boiling point and boiling range</b>      | Not available.                      |
| <b>Flash point</b>                                  | Not available.                      |
| <b>Evaporation rate</b>                             | Not available.                      |
| <b>Flammability (solid, gas)</b>                    | Not applicable.                     |
| <b>Upper/lower flammability or explosive limits</b> |                                     |
| <b>Flammability limit - lower (%)</b>               | Not available.                      |
| <b>Flammability limit - upper (%)</b>               | Not available.                      |
| <b>Explosive limit - lower (%)</b>                  | Not available.                      |
| <b>Explosive limit - upper (%)</b>                  | Not available.                      |
| <b>Vapor pressure</b>                               | Not available.                      |
| <b>Vapor density</b>                                | Not available.                      |
| <b>Relative density</b>                             | Not available.                      |
| <b>Solubility(ies)</b>                              |                                     |
| <b>Solubility (water)</b>                           | Not available.                      |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                      |
| <b>Auto-ignition temperature</b>                    | Not available.                      |
| <b>Decomposition temperature</b>                    | Not available.                      |
| <b>Viscosity</b>                                    | Not available.                      |
| <b>Other information</b>                            |                                     |
| <b>Explosive properties</b>                         | Not explosive.                      |

**Oxidizing properties** Not oxidizing.

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.

**Conditions to avoid** Contact with incompatible materials.

**Incompatible materials** Strong oxidizing agents.

**Hazardous decomposition products** No hazardous decomposition products are known.

## 11. Toxicological information

### Information on likely routes of exposure

**Inhalation** No adverse effects due to inhalation are expected.

**Skin contact** Causes skin irritation.

**Eye contact** Causes serious eye damage.

**Ingestion** Harmful if swallowed.

**Symptoms related to the physical, chemical and toxicological characteristics** Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Skin irritation. May cause redness and pain.

### Information on toxicological effects

**Acute toxicity** Harmful if swallowed.

**Skin corrosion/irritation** Causes skin irritation.

**Serious eye damage/eye irritation** Causes serious eye damage.

### Respiratory or skin sensitization

**Respiratory sensitization** Not a respiratory sensitizer.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

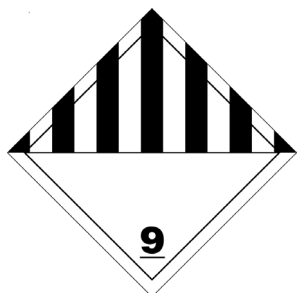
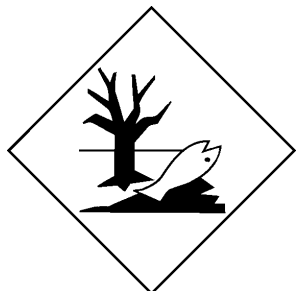
**Aspiration hazard** Not an aspiration hazard.

## 12. Ecological information

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

| Product  | Species |      | Test Results                     |
|--|---------|------|----------------------------------|
| BioFire® Global Fever Panel – FilmArray® Sample Buffer |         |      |                                  |
| Aquatic  |         |      |                                  |
| Fish   | LC50    | Fish | 401.3714 mg/l, 96 hours          |
| Acute  |         |      |                                  |
| Fish   | LC50    | Fish | 18.6667 mg/l, 96 hours estimated |

| Components                            | Species  | Test Results                   |
|---------------------------------------|--|--------------------------------|
| Triton X100 (CAS 9002-93-1)           |  |                                |
| Aquatic                               |  |                                |
| Acute                                 |  |                                |
| Fish                                  | LC50   | Bluegill (Lepomis macrochirus) |
|                                       |  | 2.8 - 3.2 mg/l, 96 hours       |
| Persistence and degradability         | No data is available on the degradability of this product.   |                                |
| Bioaccumulative potential             | No data available.   |                                |
| Mobility in soil                      | No data available.   |                                |
| Other adverse effects                 | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.  |                                |
| 13. Disposal considerations           |  |                                |
| Disposal instructions                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations. |                                |
| Local disposal regulations            | Dispose in accordance with all applicable regulations.   |                                |
| Hazardous waste code                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |                                |
| Waste from residues / unused products | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).   |                                |
| Contaminated packaging                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.   |                                |
| 14. Transport information             |  |                                |
| DOT                                   |  |                                |
| UN number                             | UN3082   |                                |
| UN proper shipping name               | Environmentally hazardous substances, liquid, n.o.s. (Triton X100), MARINE POLLUTANT   |                                |
| Transport hazard class(es)            |  |                                |
| Class                                 | 9  |                                |
| Subsidiary risk                       | -  |                                |
| Label(s)                              | 9  |                                |
| Packing group                         | III  |                                |
| Environmental hazards                 |  |                                |
| Marine pollutant                      | Yes  |                                |
| Special precautions for user          | Read safety instructions, SDS and emergency procedures before handling.  |                                |
| Special provisions                    | 8, 146, 335, IB3, T4, TP1, TP29  |                                |
| Packaging exceptions                  | 155  |                                |
| Packaging non bulk                    | 203  |                                |
| Packaging bulk                        | 241  |                                |
| IATA                                  |  |                                |
| UN number                             | UN3082   |                                |
| UN proper shipping name               | Environmentally hazardous substance, liquid, n.o.s. (Triton X100)  |                                |
| Transport hazard class(es)            |  |                                |
| Class                                 | 9  |                                |
| Subsidiary risk                       | -  |                                |
| Packing group                         | III  |                                |
| Environmental hazards                 | Yes  |                                |
| ERG Code                              | 9L   |                                |
| Special precautions for user          | Read safety instructions, SDS and emergency procedures before handling.  |                                |
| Other information                     |  |                                |
| Passenger and cargo aircraft          | Allowed with restrictions.   |                                |
| Cargo aircraft only                   | Allowed with restrictions.   |                                |
| IMDG                                  |  |                                |
| UN number                             | UN3082   |                                |
| UN proper shipping name               | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triton X100), MARINE POLLUTANT  |                                |

**Transport hazard class(es)****Class** 9**Subsidiary risk** -**Packing group** III**Environmental hazards****Marine pollutant** Yes**EmS** F-A, S-F**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling.**Transport in bulk according to** Not established.**Annex II of MARPOL 73/78 and  
the IBC Code****DOT; IATA; IMDG****Marine pollutant**

## 15. Regulatory information

**US federal regulations**

All components are on the U.S. EPA TSCA Inventory List.

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**Toxic Substances Control Act (TSCA)****TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)****SARA 302 Extremely hazardous substance**

Not listed.

**SARA 311/312 Hazardous  
chemical** Yes**Classified hazard  
categories** Acute toxicity (any route of exposure)  
Skin corrosion or irritation  
Serious eye damage or eye irritation**SARA 313 (TRI reporting)**

Not regulated.

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### Safe Drinking Water Act (SDWA)

Not regulated.

## US state regulations

### California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))

Triton X100 (CAS 9002-93-1)

## International Inventories

| Country(s) or region        | Inventory name   | On inventory (yes/no)* |
|-----------------------------|--|------------------------|
| Australia                   | Australian Inventory of Industrial Chemicals (AICIS)                   | Yes                    |
| Canada                      | Domestic Substances List (DSL)   | Yes                    |
| Canada                      | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                       | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe                      | European Inventory of Existing Commercial Chemical Substances (EINECS) | No                     |
| Europe                      | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                       | Inventory of Existing and New Chemical Substances (ENCS)               | No                     |
| Korea                       | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand                 | New Zealand Inventory  | Yes                    |
| Philippines                 | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |
| Taiwan                      | Taiwan Chemical Substance Inventory (TCSI)                             | Yes                    |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory                          | Yes                    |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** June 2023

**Version #** 01

**Disclaimer** BioFire Defense, LLC cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.