

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

1. Identification

Product identifier BioFire® Global Fever Panel

Product Code: DFA2-ASY-0004

Hazardous Product FilmArray® Sample Buffer

Product Code: FAIV-GEN-0003

Recommended Use In vitro diagnostic medical device

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses In vitro diagnostic medical device

None known. Uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier

BioFire Defense, LLC Company name 79 W 4500 S Suite 14 Address

Salt Lake City, Utah, 84107

USA

Telephone For information call: 1-801-262-3592

1.4. Emergency telephone

number

Call your local poison control center

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Category 4 H302 - Harmful if swallowed. Acute toxicity, oral Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Environmental hazards

Hazardous to the aquatic environment, acute Category 1 H400 - Very toxic to aquatic life.

aquatic hazard

Hazardous to the aquatic environment, Category 1 H410 - Very toxic to aquatic life

long-term aquatic hazard with long lasting effects.

Causes serious eye damage. Harmful if swallowed. Risk of serious damage to eyes. Irritating to **Hazard summary** skin. Causes skin irritation. Dangerous for the environment if discharged into watercourses. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Contains: guanidinium chloride; guanadine hydrochloride, Triton X100

Hazard pictograms



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Signal word Danger **Hazard statements**

> Very toxic to aquatic life. H400

Very toxic to aquatic life with long lasting effects. H410

Harmful if swallowed. H302 Causes skin irritation. H315 Causes serious eye damage. H318

Precautionary statements

Prevention

Avoid release to the environment. P273 Wear eye protection/face protection. P280

Response

Collect spillage. P391

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice/attention. P332 + P313

IF SWALLOWED: Call a POISON CENTRE/doctor if you feel unwell. P301 + P312

P337 + P313 If eye irritation persists: Get medical advice/attention.

Not available. Storage Not available. **Disposal**

Supplemental label information None.

2.3. Other hazards This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
guanidinium chloride; guanadine hydrochloride	50 - < 60	50-01-1 200-002-3	01-2119977063-35-XXXX	607-148-00-0	
Classification:	Acute Tox.	4;H302;(ATE: 500 m	g/kg), Skin Irrit. 2;H315, Eye	e Irrit. 2;H319	
Triton X100	10 - < 20	9002-93-1	-	-	
Classification:	Eye Dam. 1	- I;H318, Aquatic Chro	nic 2;H411		
Other components below reportable	30 - < 40				

Other components below reportable

levels

List of abbreviations and symbols that may be used above

DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.

#: This substance has been assigned Union workplace exposure limit(s).

#: This substance has been assigned Community workplace exposure limit(s).

M: M-factor

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16. The full text for all R- and H-phrases is

displayed in section 16.

SECTION 4: First aid measures

General information If you feel unwell, seek medical advice (show the label where possible). Show this safety data

sheet to the doctor in attendance.

4.1. Description of first aid measures

Inhalation 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.

Skin contact 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.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

IF SWALLOWED: Immediately call a POISON CENTRE 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.

4.2. Most important symptoms and effects, both acute and delayed

Ingestion

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. Irritating to mouth, throat, and

stomach. Skin irritation. May cause redness and pain.

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4.3. Indication of any immediate medical attention and special treatment needed Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

Foam, Powder,

Unsuitable extinguishing

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective

equipment for firefighters

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Wear appropriate personal protective equipment.

For emergency responders

Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SDS.

6.2. Environmental precautions

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. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Prevent product from entering drains.

6.3. Methods and material for containment and cleaning up

Large Spills: Stop the flow of material, if this is without risk. 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.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Do not breathe vapour. 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.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

SDS).

7.3. Specific end use(s) Not available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No exposure limits noted for ingredient(s). Occupational exposure limits

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

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

Individual protection measures, such as personal protective equipment

Use personal protective equipment as required. Personal protection equipment should be chosen General information

according to the CEN standards and in discussion with the supplier of the personal protective

equipment. Eye wash fountain is recommended.

Eye/face protection Avoid contact with eyes. Face shield is recommended. Wear safety glasses with side shields (or

goggles). Eye wash fountain is recommended.

Skin protection

- Hand protection Use protective gloves made of: Nitrile.

- Other Avoid contact with the skin. Wear suitable protective clothing.

Respiratory protection No personal respiratory protective equipment normally required.

Not available. Thermal hazards

Hygiene measures

Environmental exposure

controls

When using, do not eat, drink or smoke. Wash hands after handling and before eating.

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.

Colour Clear colorless or nearly colorless

Odour Not available. Not available. Melting point/freezing point Boiling point or initial boiling Not available.

point and boiling range

Not applicable. Flammability (solid, gas)

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

Flammability limit - upper

(%)

Not available.

Flash point Not available. **Auto-ignition temperature** Not available. Not available. **Decomposition temperature** pН Not available.

Solubility(ies)

Solubility (water) Not available. Not available. Partition coefficient

(n-octanol/water)

Not available. Vapour pressure Vapour density Not available. Not available. Relative density Not available. Particle characteristics

Other safety characteristics

Not explosive. **Explosive properties Oxidising properties** Not oxidising.

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid Contact with incompatible materials. 10.5. Incompatible materials Strong oxidising agents.

No hazardous decomposition products are known. 10.6. Hazardous

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected.

Skin contact Causes skin irritation.

Causes serious eye damage. Eye contact

Harmful if swallowed. Ingestion

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Permanent eye damage including blindness could result. Irritating to mouth, throat, and

stomach. Skin irritation. May cause redness and pain.

11.1. Information on toxicological effects

Harmful if swallowed. **Acute toxicity** Skin corrosion/irritation Causes skin irritation. Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitisation Due to partial or complete lack of data the classification is not possible. Skin sensitisation Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible. Carcinogenicity Reproductive toxicity Due to partial or complete lack of data the classification is not possible. Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard**

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

Not available.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Very toxic to aquatic life with long lasting effects.

Product Species Test Results

BioFire® Respiratory Panel 2.1 plus (RP2.1 plus) - Sample Buffer

Aquatic

Fish 401.3714 mg/l, 96 hours estimated Fish LC50

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

12.2. Persistence and No data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential No data available. Partition coefficient Not available.

n-octanol/water (log Kow)

Not available. **Bioconcentration factor (BCF)**

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB This mixture does not meet vPvB / PBT criteria of Regulation (EC) No 1907/2006, Annex XIII.

assessment

12.6. Endocrine disrupting

properties

Not available.

12.7. 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.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste

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). Avoid discharge into water courses or onto the ground.

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.

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste disposal company. Waste codes should be assigned by the user based on the application for which the product was used.

Disposal methods/information

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. This material and its container must be disposed of as hazardous waste. Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities. Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

This statement only applies to countries within the EU with regard to the Registration, Evaluation,

Authorisation and Restriction of Chemicals (REACH) Regulation (EC 1907/2006):

It is recommended that all material associated with the test, including material used to clean up spills, contaminated packaging, and/or unused and expired IVD tests, is incinerated. Please

ensure that you follow local regulations regarding disposal.

Special precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

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
Transport hazard class(es)

Tunnel restriction code E Label(s) 9

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Transport hazard class(es)
Hazard No. (ADR)
90

RID

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triton X100)

name

14.3. Transport hazard class(es)

Class	9		
Subsidiary risk	-		
Label(s)	9		
14.4. Packing group			
14.5. Environmental hazards Yes			

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triton X100)

name

14.3. Transport hazard class(es)

Class	9		
Subsidiary risk	-		
Label(s)	9		
14.4. Packing group			
14.5. Environmental hazards Yes			

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14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

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

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Environmental hazards Yes **ERG Code** 9L

IMDG

UN number UN3082

UN proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triton X100), Marine

pollutant

Not established.

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.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC

Code

ADN; ADR; IATA; IMDG; RID



Marine pollutant



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

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Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Triton X100 (CAS 9002-93-1)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Triton X100 (CAS 9002-93-1)

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Triton X100 (CAS 9002-93-1)

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

Not listed.

Other regulations This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006. The

product is classified and labelled in accordance with EC directives or respective national laws. The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No

1907/2006, as amended.

Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as **National regulations**

amended.

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations Not available. References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available,

Full text of any H-statements not written out in full under

Sections 2 to 15

H302 Harmful if swallowed. H315 Causes skin irritation. H318 Causes serious eve damage. H319 Causes serious eye irritation.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Follow training instructions when handling this material. Training information

BioFire Defense, LLC cannot anticipate all conditions under which this information and its product, Disclaimer

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.