

SAFETY DATA SHEET

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
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 Teleph	one 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

number



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 repor	table levels		30 - < 40
4. First-aid measures			
nhalation	Remove victim to fresh air and keep at rest in difficulties, oxygen may be necessary. Call a		
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.		
Eye contact	Immediately flush eyes with plenty of water for present and easy to do. Continue rinsing. Get		
ngestion	IF SWALLOWED: Immediately call a POISO induce vomiting without advice from poison of that stomach content doesn't get into the lung	ontrol center. If vomiting occur	
Most important symptoms/effects, acute and lelayed	Severe eye irritation. Symptoms may include vision. Permanent eye damage including blind and pain.		
ndication of immediate nedical attention and special reatment needed	Symptoms may be delayed.		
General information	Show this safety data sheet to the doctor in a	ttendance.	
5. Fire-fighting measures			
Suitable extinguishing media	Foam. Powder.		
Jnsuitable extinguishing nedia	Do not use water jet as an extinguisher, as thi	is will spread the fire.	
Specific hazards arising from he chemical	During fire, gases hazardous to health may b	e formed.	
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full pr	rotective clothing must be wor	n in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do	so without risk.	
Specific methods	Use standard firefighting procedures and cons	sider the hazards of other invo	lved materials.
General fire hazards	No unusual fire or explosion hazards noted.		
6. Accidental release meas	sures		
Personal precautions, protective equipment and emergency procedures	For personal protection, see section 8 of the sappropriate protective equipment and clothing or spilled material unless wearing appropriate	g during clean-up. Do not toucl	n damaged containers
Methods and materials for	Prevent product from entering drains.		
containment and cleaning up	Large Spills: Dike the spilled material, where the earth and place into containers. Following pro-		
	Small Spills: Wipe up with absorbent material remove residual contamination.	(e.g. cloth, fleece). Clean surf	ace thoroughly to
Environmental precautions	Never return spills to original containers for re Avoid release to the environment. Inform app environmental releases. Prevent further leaka drains, water courses or onto the ground.	propriate managerial or superv	isory personnel of all
7. Handling and storage			
Precautions for safe handling	Do not get this material in contact with eyes. using, do not eat, drink or smoke. Provide ad protective equipment. Wash hands thoroughly Observe good industrial hygiene practices.	equate ventilation. Wear appro	opriate personal
Conditions for safe storage, ncluding any incompatibilities	Store in tightly closed container. Store away f SDS).	rom incompatible materials (se	ee Section 10 of the

8. Exposure controls/personal protection

Occupational exposure limits	This mixture has no ingredients that have PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
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 shower.
Individual protection measures,	such as personal protective equipment
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.
Thermal hazards	Not available.
General hygiene considerations	Wash hands after handling and before eating. Keep away from food and drink.

9. Physical and chemical properties

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

information on likely routes of	exposure		
Inhalation	No adverse e	ffects due to inhalation are expected.	
Skin contact	Causes skin i	rritation.	
Eye contact	Causes serio	us eye damage.	
Ingestion	Harmful if swa	allowed.	
Symptoms related to the physical, chemical and toxicological characteristics		ritation. Symptoms may include stinging, te nent eye damage including blindness cou pain.	
Information on toxicological eff	fects		
Acute toxicity	Harmful if swa	allowed.	
Skin corrosion/irritation	Causes skin i	rritation.	
Serious eye damage/eye irritation	Causes serio	us eye damage.	
Respiratory or skin sensitizatio	n		
Respiratory sensitization	Not a respirat	ory sensitizer.	
Skin sensitization	This product i	s not expected to cause skin sensitization.	
Germ cell mutagenicity	No data availa mutagenic or	able to indicate product or any component genotoxic.	s present at greater than 0.1% are
Carcinogenicity	Not classifiab	le as to carcinogenicity to humans.	
IARC Monographs. Overall Not listed. OSHA Specifically Regulate Not listed. US. National Toxicology Pr Not listed.	ed Substances	(29 CFR 1910.1001-1053)	
Reproductive toxicity	This product i	s not expected to cause reproductive or de	evelopmental effects.
Specific target organ toxicity - single exposure	Not classified		
Specific target organ toxicity - repeated exposure	Not classified		
Aspiration hazard	Not an aspira	tion hazard.	
12. Ecological information	n		
Ecotoxicity	Very toxic to	aquatic life with long lasting effects.	
Product		Species	Test Results
BioFire [®] Global Fever Panel	– FilmArray® Sa	mple 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 a	No data available.		
Mobility in soil	No data a	vailable.		
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 consideratio	ns			
Disposal instructions	this mater	•	at licensed waste disposal site. Do not allow pose of contents/container in accordance with	
Local disposal regulations	Dispose ir	accordance with all applicable regulations	3.	
Hazardous waste code	The waste disposal c		etween the user, the producer and the waste	
Waste from residues / unused products	product re	f in accordance with local regulations. Em sidues. This material and its container mu nstructions).		

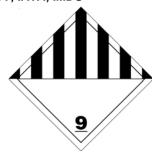
Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

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
ΙΑΤΑ	
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
	Read safety instructions, SDS and emergency procedures before handling.
Other information	
Passenger and cargo	Allowed with restrictions.
aircraft	
Cargo aircraft only	Allowed with restrictions.
IMDG	1010000
UN number	
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 component:

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 A	ct (TSCA)
TSCA Section 12(b) Exp	ort Notification (40 CFR 707, Subpt. D)
Not regulated.	
CERCLA Hazardous Substa	nce List (40 CFR 302.4)
Not listed.	
SARA 304 Emergency release	se notification
Not regulated.	
OSHA Specifically Regulate	d Substances (29 CFR 1910.1001-1053)
Not listed.	
Superfund Amendments and Re	authorization Act of 1986 (SARA)
SARA 302 Extremely hazard	lous 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 Not regulated. (SDWA)

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.

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 #	02
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.