# SAFETY DATA SHEET



SureFISH Probes - Green, Part Numbers G110100G through G110995G

### **Section 1. Identification**

### 1.1 Product identifier

: SureFISH Probes - Green, Part Numbers G110100G through G110995G **Product name** 

: G110902G, G110903G, G110904G, G110907G, G110909G, G110910G, G110911G. Part no.

G110913G, G110916G, G110917G, G110918G, G110920G, G110922G, G110925G, G110927G, G110928G, G110929G, G110931G, G110932G, G110936G, G110938G, G110969G, G110975G, G110976G, G110980G, G110982G, G110985G, G110986G, G110989G, G110991G, G110992G, G110993G, G110995G, G110100G, G110101G, G110105G, G110107G, G110109G, G110110G, G110113G, G110114G, G110116G, G110119G, G110122G, G110124G, G110125G, G110128G, G110130G, G110132G, G110133G, G110135G, G110201G, G110204G, G110206G, G110208G, G110217G, G110219G, G110223G, G110225G, G110227G, G110230G, G110235G, G110237G, G110243G, G110245G, G110254G, G110274G, G110284G, G110288G, G110290G, G110293G, G110304G, G110323G, G110326G, G110360G, G110364G, G110367G, G110369G, G110400G, G110404G, G110407G, G110409G, G110410G, G110413G, G110415G, G110416G, G110418G, G110420G, G110422G, G110425, G110816G,

G110899G

Validation date : 3/12/2024

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

: Analytical reagent. **Identified uses** 

> 0.005 ml - 0.1 ml SureFISH Probes - Green G110100G through G110995G

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

Supplier/Manufacturer : Agilent Technologies, Inc.

> 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

### 1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

### Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**OSHA/HCS** status : This material is considered hazardous by the OSHA Hazard Communication Standard

(29 CFR 1910.1200).

#### Classification of the substance or mixture

**H**319 EYE IRRITATION - Category 2A

H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

### 2.2 GHS label elements

**Hazard pictograms** 





Signal word Warning

**Hazard statements** : H319 - Causes serious eye irritation.

H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)

**Precautionary statements** 

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### Section 2. Hazards identification

Prevention : P280 - Wear eye or face protection.

P260 - Do not breathe vapor.

Response : P314 - Get medical advice or attention if you feel unwell.

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention.

Storage : Not applicable.

Disposal : P501 - Dispose of contents and container in accordance with all local, regional, national

and international regulations.

2.3 Other hazards

**Hazards not otherwise** 

classified

**Eye contact** 

: None known.

### Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	%	CAS number
ethylene carbonate	≥10 - ≤24	96-49-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

### Section 4. First aid measures

### 4.1 Description of necessary first aid measures

. I Description of necessary mist aid measures

: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10

minutes. Get medical attention.

Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If

not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention following exposure or if feeling unwell. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband.

Skin contact : Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly

before reuse.

Ingestion : ₩ash out mouth with water. Remove dentures if any. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention following exposure or if feeling unwell. Never give anything by mouth to an unconscious person.

If unconscious, place in recovery position and get medical attention immediately.

Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

#### 4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

**Eye contact** : Causes serious eye irritation.

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### Section 4. First aid measures

Inhalation : No known significant effects or critical hazards.
 Skin contact : No known significant effects or critical hazards.
 Ingestion : No known significant effects or critical hazards.

### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large

quantities have been ingested or inhaled.

**Specific treatments**: No specific treatment.

Protection of first-aiders : No action shall be taken involving any personal risk or without suitable training. It may

be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

### See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### 5.1 Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: Use an extinguishing agent suitable for the surrounding fire.

: None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous thermal decomposition products

 Decomposition products may include the following materials: carbon dioxide

carbon monoxide halogenated compounds metal oxide/oxides

#### 5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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### Section 6. Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

### For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

# **6.2 Environmental precautions**

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

### Section 7. Handling and storage

### 7.1 Precautions for safe handling

**Protective measures** 

: Put on appropriate personal protective equipment (see Section 8). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

# Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

# 7.2 Conditions for safe storage, including any incompatibilities

: Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

Recommendations
Industrial sector specific solutions

- : Industrial applications, Professional applications.
- : Not available.

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### Section 8. Exposure controls/personal protection

### 8.1 Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
ethylene carbonate	None.

### **Biological exposure indices**

No exposure indices known.

### **8.2 Exposure controls**

Appropriate engineering controls

: If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

# **Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

# Skin protection Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

### **Body protection**

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

#### **Respiratory protection**

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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### Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

**Appearance** 

**Physical state** : Liquid.

Color : Not available. Odor : Not available. **Odor threshold** : Not available. pН Not available.

Melting point/freezing point **Boiling point, initial boiling** 

point, and boiling range

: Not available. : Not available.

Flash point

	Closed cup				cup	
Ingredient name	°C	°F	Method	°C	°F	Method
€thylene carbonate	159.85	319.7	-	143.3	289.9	-

**Evaporation rate Flammability** Lower and upper explosion limit/flammability limit

Not applicable. : Not available.

: Not available.

Vapor pressure

	Vapor Pressure at 20°C			Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
₩ater	17.5	2.3	-	92.258	12.3	-	
ethylene carbonate	0.0098	0.0013	-	-	-	-	

Relative vapor density **Relative density** 

Solubility(ies)

: Not available. Not available.

> Media water

Yes.

Result Soluble

Miscible with water

Partition coefficient: n-

octanol/water

: Not applicable.

**Auto-ignition temperature** 

Ingredient name	°C	°F	Method
<b>e</b> thylene carbonate	465	869	-

**Decomposition temperature Viscosity** 

: Not available. : Not available.

**Particle characteristics** 

: Not applicable. Median particle size

Section 10. Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of : Under normal conditions of storage and use, hazardous reactions will not occur. hazardous reactions

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### Section 10. Stability and reactivity

**10.4 Conditions to avoid** : No specific data.

10.5 Incompatible materials : May react or be incompatible with oxidizing materials.

10.6 Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### Section 11. Toxicological information

### 11.1 Information on toxicological effects

### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
ethylene carbonate	LD50 Dermal	Rat - Male, Female	>2000 mg/kg	-
	LD50 Oral	Rat	10 g/kg	-

### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
€thylene carbonate	Skin - Mild irritant	Rabbit	-	660 mg	-

#### **Sensitization**

Not available.

**Mutagenicity** 

Conclusion/Summary : Not available.

**Carcinogenicity** 

**Conclusion/Summary**: Not available.

Reproductive toxicity

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
ethylene carbonate	Category 2	oral	kidneys

### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

Inhalation
 Skin contact
 No known significant effects or critical hazards.
 Ingestion
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

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### **Section 11. Toxicological information**

### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact**: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : May cause damage to organs through prolonged or repeated exposure.

Carcinogenicity : No known significant effects or critical hazards.
 Mutagenicity : No known significant effects or critical hazards.
 Reproductive toxicity : No known significant effects or critical hazards.

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ l)
SureFISH Probes - Green, Part Numbers G110100G through G110995G ethylene carbonate	2453.0	12626.6	N/A	N/A	N/A
	500	2500	N/A	N/A	N/A

### **Section 12. Ecological information**

#### **12.1 Toxicity**

Product/ingredient name	Result	Species	Exposure
€thylene carbonate	Acute EC50 >100 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
		Fish - Fry Algae - Pseudokirchneriella subcapitata	96 hours 72 hours

### 12.2 Persistence and degradability

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### **Section 12. Ecological information**

Product/ingredient name	Test	Result		Dose		Inoculum
ethylene carbonate	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	98.5 % - Readily - 28 days		-		Activated sludge
Product/ingredient name	Aquatic half-life		Photolysis	·	Biodeg	radability
ethylene carbonate			-		Readily	

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
ethylene carbonate	0.11	-	Low

### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

12.5 Other adverse effects

: No known significant effects or critical hazards.

### Section 13. Disposal considerations

### 13.1 Waste treatment methods

**Disposal methods** 

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

### Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated.

**IATA** 

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

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### **Section 14. Transport information**

Transport in bulk according : Not available.

to IMO instruments

### Section 15. Regulatory information

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

**U.S. Federal regulations** : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112

(b) Hazardous Air **Pollutants (HAPs)**  : Not listed

Clean Air Act Section 602

Class I Substances

: Not listed

Clean Air Act Section 602

**Class II Substances** 

: Not listed

**DEA List I Chemicals** 

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals) : Not listed

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : EYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### Composition/information on ingredients

Name	%	Classification
ethylene carbonate		ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

#### State regulations

**Massachusetts** : The following components are listed: ETHYLENE CARBONATE

**New York** : None of the components are listed. **New Jersey** : None of the components are listed.

**Pennsylvania** : The following components are listed: 1,3-DIOXOLAN-2-ONE

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

#### **International regulations**

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

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### Section 15. Regulatory information

Not listed.

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

### **Inventory list**

Australia : Not determined.

Canada : Not determined.

China : All components are listed or exempted.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): All components are listed or exempted.

**New Zealand** : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.

Viet Nam : Not determined.

### Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
,	Calculation method Calculation method

#### **History**

Date of issue/Date of

revision

: 03/12/2024

Date of previous issue : 03/24/2021

Version : 6

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available
UN = United Nations

Indicates information that has changed from previously issued version.

### **Notice to reader**

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

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