SAFETY DATA SHEET



SureFISH Lymphoma Probes, Part numbers G111420 through G111443

Section 1. Identification

1.1 Product identifier	
Product name	: SureFISH Lymphoma Probes, Part numbers G111420 through G111443
Part no.	: G111420, G111421, G111422, G111423, G111424, G111425, G111426, G111442, G111443
Validation date	: 6/28/2023
1.2 Relevant identified us	es of the substance or mixture and uses advised against
Identified uses	• Analytical reagent. 0.02 ml/vial (20 μl/vial) G111420-85510 SureFISH MALT1 BA P20 G111421-85510 SureFISH BCL2 BA P20 G111422-85510 SureFISH BCL6 BA P20 G111423-85510 SureFISH MYC BA P20 G111424-85510 SureFISH IGH BA P20 G111425-85510 SureFISH IGH MYC DF P20 G111426-85510 SureFISH IGH BCL2 DF P20 G111442-85510 SureFISH IGH CCND1 DF P20 G111443-85510 SureFISH IGH CCND1 BA P20
1.3 Details of the supplie	r of the safety data sheet
Supplier/Manufacturer	: Agilent Technologies, Inc.

Supplier/Manufacturer	: Agilent Technologies, Inc. 5301 Stevens Creek Blvd Santa Clara, CA 95051, USA 800-227-9770
	800-227-9770

<u>1.4 Emergency telephone number</u>

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 #319 #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.
Precautionary statements	H373 - May cause damage to organs through prolonged or repeated exposure. (kidneys)
Prevention	: ₱280 - Wear eye or face protection. ₱260 - Do not breathe vapor.

Section 2. Hazards identification

Response	 F314 - 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	: 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

Eye contact	: 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	: Wash 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 symptom	ns/effects, acute and delayed
Potential acute health effect	<u>ts</u>

Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: No known significant effects or critical hazards.

Date of issue : C	6/28/2023
-------------------	-----------

Section 4. First aid measures

Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	<u>/mptoms</u>
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 immedia	ate 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	: Use an extinguishing agent suitable for the surrounding fire.	
Unsuitable extinguishing media	: 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 breathin apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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 i Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Date of issue : 06/28/20	23 3/1

Section 6. Accidental release measures

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	 Industrial applications, Professional applications. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

solutions

Occupational exposure limits

Ingredient name	Exposure limits
e thylene 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.

Section 8. Exposure controls/personal protection

Environmental exposure controls	they co cases,	ons from ventilation or work process equipment should be checked to ensure omply with the requirements of environmental protection legislation. In some fume scrubbers, filters or engineering modifications to the process equipment necessary to reduce emissions to acceptable levels.
Individual protection meas	<u>res</u>	
Hygiene measures	eating, Approp Wash	hands, forearms and face thoroughly after handling chemical products, before smoking and using the lavatory and at the end of the working period. oriate techniques should be used to remove potentially contaminated clothing. contaminated clothing before reusing. Ensure that eyewash stations and safety rs are close to the workstation location.
Eye/face protection	assess gases	eyewear complying with an approved standard should be used when a risk sment indicates this is necessary to avoid exposure to liquid splashes, mists, or dusts. If contact is possible, the following protection should be worn, unless sessment indicates a higher degree of protection: chemical splash goggles.
Skin protection		
Hand protection	worn a necess during noted f glove r	cal-resistant, impervious gloves complying with an approved standard should be t all times when handling chemical products if a risk assessment indicates this is sary. Considering the parameters specified by the glove manufacturer, check use that the gloves are still retaining their protective properties. It should be that the time to breakthrough for any glove material may be different for different nanufacturers. In the case of mixtures, consisting of several substances, the tion time of the gloves cannot be accurately estimated.
Body protection	perforr	nal protective equipment for the body should be selected based on the task being ned and the risks involved and should be approved by a specialist before ng this product.
Other skin protection	based	briate footwear and any additional skin protection measures should be selected on the task being performed and the risks involved and should be approved by a list before handling this product.
Respiratory protection	approp respira	on the hazard and potential for exposure, select a respirator that meets the priate standard or certification. Respirators must be used according to a tory protection program to ensure proper fitting, training, and other important s of use.

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.

<u>Appearance</u>							
Physical state	: Liquid.						
Color	: Not available.						
Odor	: Not available.						
Odor threshold	: Not available.						
рН	: 6.2						
Melting point/freezing point	: Not available.						
	: Not available.						
point, and boiling range	: Not available.		Closed o	up		Oper	і сир
point, and boiling range		°C	Closed o	up Method	°C	Oper °F	n cup Method
point, and boiling range	:		1	<u> </u>	°C 143.3	-	
Boiling point, initial boiling point, and boiling range Flash point Evaporation rate	: Ingredient name	°C	°F	<u> </u>	-	°F	

|--|--|

Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion : Not available.

Vapor pressure	:	Vapo	r Pressu	ire at 20°C	Va	Vapor pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	water	17.5	2.3	-	92.258	12.3	-	
	ethylene carbonate	0.0098	0.0013	-	-	-	-	
Relative vapor density	: Not available.			•				
Relative density	: Not available.							
Solubility(ies)	: Media			Result				
	water			Soluble				
Miscible with water	: Yes.							
Partition coefficient: n- octanol/water	: Not applicable.							
Auto-ignition temperature	: Ingredient name		°C	°F		Method		
	€thylene carbonate		465	869	-			
Decomposition temperature	: Not available.				I			
Viscosity	: Not available.							
Particle characteristics								
Median particle size	: Not applicable.							

Section 10. Stability and reactivity

10.1 Reactivity	1	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 hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
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		10 g/kg	-

Irritation/Corrosion

Date of issue :	06/28/2023	6/11
-----------------	------------	------

-

Product/ingredient name	Result	Species	Score	Exposure	Observation
ethylene carbonate	Skin - Mild irritant	Rabbit	-	660 mg	-
Sensitization					
Not available.					
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
<u>Feratogenicity</u>					
Conclusion/Summary	: Not available.				
Specific target organ toxici	ity (single exposure)				
Not available.					
<u>Specific target organ toxici</u>	ity (repeated exposure)				
Name		Category	Rout expo	te of Tosure	arget organs
ethylene carbonate		Category 2	oral	ki	idneys
Aspiration hazard				ŀ	
<u>ASpiration nazaru</u>					
Not available.					
Not available. formation on the likely	: R outes of entry anticip	oated: Oral, Derma	al, Inhalation,	Eyes.	
Not available. formation on the likely outes of exposure		oated: Oral, Derma	al, Inhalation,	Eyes.	
Not available. formation on the likely outes of exposure otential acute health effect	<u>s</u>		al, Inhalation,	Eyes.	
Not available. formation on the likely	<u>s</u> : Causes serious eye ir	ritation.		Eyes.	
Not available. formation on the likely outes of exposure otential acute health effect	<u>s</u>	ritation.		Eyes.	
Not available. formation on the likely outes of exposure otential acute health effect Eye contact	<u>s</u> : Causes serious eye ir	ritation. effects or critical h	azards.	Eyes.	
Not available. formation on the likely outes of exposure otential acute health effect Eye contact nhalation	<u>s</u> : Causes serious eye ir : No known significant e	ritation. effects or critical he effects or critical he	azards. azards.	Eyes.	
Not available. formation on the likely butes of exposure <u>otential acute health effect</u> Eye contact nhalation Skin contact ngestion	 S Causes serious eye in No known significant e No known significant e No known significant e 	ritation. effects or critical h effects or critical h effects or critical h	azards. azards. azards.	Eyes.	
Not available. formation on the likely putes of exposure <u>otential acute health effect</u> Eye contact nhalation Skin contact ngestion	 S Causes serious eye in No known significant e No known significant e No known significant e No known significant e 	ritation. effects or critical h effects or critical h effects or critical h cological charact	azards. azards. azards. eristics	Eyes.	
Not available. formation on the likely putes of exposure <u>otential acute health effect</u> Eye contact nhalation Skin contact ngestion	 S Causes serious eye in No known significant e No known significant e No known significant e No known significant e So known significant e Adverse symptoms m pain or irritation watering 	ritation. effects or critical h effects or critical h effects or critical h cological charact	azards. azards. azards. eristics	Eyes.	
Not available. formation on the likely butes of exposure <u>otential acute health effect</u> Eye contact nhalation Skin contact ngestion	 S Causes serious eye in No known significant e No known significant e No known significant e No known significant e So known significant e Adverse symptoms m pain or irritation watering redness 	ritation. effects or critical h effects or critical h effects or critical h cological charact	azards. azards. azards. eristics	Eyes.	
Not available. formation on the likely butes of exposure <u>otential acute health effect</u> Eye contact nhalation Skin contact ngestion <u>ymptoms related to the phy</u> Eye contact	 S Causes serious eye in No known significant e No known significant e No known significant e No known significant e So known significant e Adverse symptoms m pain or irritation watering 	ritation. effects or critical h effects or critical h effects or critical h cological charact	azards. azards. azards. eristics	Eyes.	

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

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
<u>Long term exposure</u>	
Potential immediate effects	: Not available.

Date of	of	issue	:	06/28/2023

Section 11. Toxicological information

Potential delayed effects	: Not available.
Potential chronic health effe	ects
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)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
SureFISH Lymphoma Probes, Part numbers G111420 through G111443 ethylene carbonate	2453.0 500	12626.3 2500	N/A N/A	N/A N/A	N/A N/A

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ethylene carbonate	Acute EC50 >100 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute LC50 53000 mg/l Fresh water Acute NOEC 100 mg/l Fresh water	Fish - Fry Algae - <i>Pseudokirchneriella</i> <i>subcapitata</i>	96 hours 72 hours

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ethylene carbonate	0.11	-	Low

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

12.5 Other adverse effects : No known significant effects or critical hazards.

	Date of issue :	06/28/2023	8/11
--	-----------------	------------	------

Section 13. Disposal considerations

13.1 Waste treatment methodsDisposal 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.

Transport in bulk according : Not available. to IMO instruments

Section 15. Regulatory information

15.1 Safety, health and envir	ironmental 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)	2 : 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 (Precursor Chemicals)	: Not listed	
DEA List II Chemicals (Essential Chemicals)	: Not listed	
<u>SARA 302/304</u>		
Composition/information	<u>ı on ingredients</u>	
Date of issue : 06/28/2	/2023	9

Section 15. Regulatory information

No products were found.

SARA 304 RQ

: Not applicable.

SARA 311/312 Classification

: FYE IRRITATION - Category 2A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

Composition/information on ingredients

Name	%	Classification
ethylene carbonate	-10 -21	ACUTE TOXICITY (oral) - Category 4 EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

State	regu	lations

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
<u>California Prop. 65</u>	

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)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

involutory not	
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	: 🕅 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	: 🕅 components are active or exempted.
Viet Nam	: Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification YE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2		Justification Calculation method Calculation method
Date of issue/Date of revision	: 06/28/2023	
Date of previous issue	: 01/02/2020	
	0	

Version	: 3
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 = Internediate 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.