Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals

SAFETY DATA SHEET

Agilent Technologies

SureFISH Lymphoma Probes, Part numbers G111420 through G111443

Section 1. Identification

Product identifier	: SureFISH Lymphoma Probes, Part numbers G111420 through G111443
Part no.	: G111420, G111421, G111422, G111423, G111424, G111425, G111426, G111442, G111443
Relevant identified uses o	f 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 CCND1 BA P20
Supplier/Manufacturer	: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia 1800 802 402
Emergency telephone number (with hours of operation)	: CHEMTREC®: +(61)-290372994
Section 2. Hazar	d(s) identification
Classification of the subst	tance or mixture
⊮ 319 H373	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 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	
Prevention	 ₽280 - Wear eye or face protection. P260 - Do not breathe vapour.
Response	 F314 - Get medical advice/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.

Section 2. Hazard(s) identification

	•	
Disposal	:	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elemen	ts	
Additional warning phrases	:	Not applicable.
Other hazards which do not result in classification	:	None known.

Section 3. Composition and ingredient information

Substance/mixture : Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number
ethylene carbonate	≥10 - <25	96-49-1

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.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

Section 4. First aid measures

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.

Most important symptoms/effects, acute and delayed

Potential acute health effects			
Eye contact	: Causes serious eye irritation.		
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.		

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Section 4. First aid measures

Over-exposure signs/symp		
Eye contact	dverse symptoms may include the following: ain or irritation ratering edness	
Inhalation	lo specific data.	
Skin contact	lo specific data.	
Ingestion	o specific data.	
Indication of immediate mediate	ttention and special treatment needed, if necessary	
Notes to physician	reat symptomatically. Contact poison treatment specialist immediately if I uantities have been ingested or inhaled.	large
Specific treatments	lo specific treatment.	
Protection of first-aiders	lo action shall be taken involving any personal risk or without suitable train nay be dangerous to the person providing aid to give mouth-to-mouth resu	•

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
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
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.

Section 6. Accidental release measures

Personal precautions, protect	iv	e 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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialised 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".
Environmental precautions	:	Avoid dispersal of spilt 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).

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Section 6. Accidental release measures

Methods and material 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

Precautions for safe handling		
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Do not breathe vapour 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.
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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls and personal protection

Control parameters	
Occupational exposure limits	
None.	
Biological exposure indices	
No exposure indices known.	
Appropriate engineering : controls	If user operations generate dust, fumes, gas, vapour 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	

Section 8. Exposure controls and personal 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.

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.
Colour	:	Not available.
Odour	:	Not available.
Odour threshold	:	Not available.
рН	:	6.2
Melting point/freezing point	:	Not available.
Boiling point, initial boiling point, and boiling range	:	Not available.
Flash point	:	

	Closed cup				Open o	up:
Ingredient name	°C	°F	Method	°C	°F	Method
ethylene carbonate	159.85	319.7	-	143.3	289.9	-

Evaporation rate Flammability Lower and upper explosion

limit/flammability limit

Vap

Vapour pressure	:	Vapour Pressu			Vapo	our pressure at 50°C		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
	water	17.5	2.3	-	92.258	12.3	-	
	ethylene carbona	e 0.0098	0.0013	-	-	-	-	
Relative vapour density	: Not available.	·		*		-		
Relative density	: Not available.							
Solubility(ies)	: Media	Media			Result			
	water			Soluble				
Miscible with water	: Yes.			I				
Partition coefficient: n- octanol/water	: Not applicable.							

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: Not available.

: Not applicable.

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Section 9. Physical and chemical properties and safety characteristics

Auto-ignition temperature	:	Ingredient name	°C	°F	Method
		ethylene carbonate	465	869	-
Decomposition temperature	:	Not available.			
Viscosity	:	Not available.			
Particle characteristics					
Median particle size	:	Not applicable.			

Section 10. Stabi	Section 10. Stability and reactivity			
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.			
Chemical stability	: The product is stable.			
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.			
Conditions to avoid	: No specific data.			
Incompatible materials	: May react or be incompatible with oxidising materials.			
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.			

Section 11. Toxicological information

Information on toxicological effects

Product/ingredient name	Result		Species	•	Dose		Exposure
ethylene carbonate	LD50 Dermal		Rat - Ma Female	ale,	>2000) mg/kg	-
	LD50 Oral		Rat		10 g/k	kg	-
Irritation/Corrosion	·						
Product/ingredient name	Result	Spec	ies	Scor	e	Exposure	Observation
ethylene carbonate	Skin - Mild irritant	Rabb	oit	-		660 mg	-
Sensitisation							
Not available.							
Not available. <u>Mutagenicity</u>							
	: Not available.						
Mutagenicity	: Not available.						
<u>Mutagenicity</u> Conclusion/Summary	: Not available. : Not available.						
<u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u>							
<u>Mutagenicity</u> Conclusion/Summary <u>Carcinogenicity</u> Conclusion/Summary							
Mutagenicity Conclusion/Summary Carcinogenicity Conclusion/Summary Reproductive toxicity	: Not available.						

Not available.

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

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

Not available.

of exposure

Potential	acute	health	<u>effects</u>

Eye contact	: Causes serious eye irritation.
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.

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 as well as chronic effects from short and long-term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	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	: 📈 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 (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
SureFISH Lymphoma Probes, Part numbers G111420 through G111443	2525.3	N/A	N/A	N/A	N/A
ethylene carbonate	500	N/A	N/A	N/A	N/A

Section 12. Ecological information

<u>Toxicity</u>			
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

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
<mark>∉t</mark> hylene carbonate	OECD 301B Ready Biodegradability - CO2 Evolution Test	98.5 % - Readily - 2	8 days	-	Activated sludge
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
ethylene carbonate	-		-		Readily

Bioaccumulative potential

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

Mobility in soil

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

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

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimised 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 spilt material and runoff
	and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ADG / IMDG / IATA	;	Not regulated as Dangerous Goods according to the ADG Code .
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 to IMO instruments	:	Not available.

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Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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

Australia	: Not determined.
New Zealand	: 🕅 components are listed or exempted.
United States	: 🕅 components are active or exempted.

Section 16. Any other relevant information

<u>History</u>	
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Key to abbreviations	 ADG = Australian Dangerous Goods ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road 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 SUSMP = Standard Uniform Schedule of Medicine and Poisons UN = United Nations

Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2	Calculation method Calculation method

Indicates information that has changed from previously issued version.
Notice to reader

Notice to reader

SureFISH Lymphoma Probes, Part numbers G111420 through G111443

Section 16. Any other relevant information

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