SAFETY DATA SHEET



1/26

Genomic DNA ULS Labeling Kit, Part Number 5190-0419

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

Product name	: Genomic DNA ULS Labeling Kit, Par	t Number 5190-0419
Part no. (chemical kit)	: 5190-0419	
Part no.	: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	5190-0421 LK019G LK020G LK017D
1.2 Relevant identified us	es of the substance or mixture and use	s advised against
Identified uses	Agilent-CGHblock	d in this kit: SP0005K. (No SDS is necessary.) 0.75 ml
		0.0125 ml
	ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	0.0125 ml 0.1 ml

Agilent Technologies LDA UK Ltd. 5500 Lakeside Cheadle Royal Business Park, Cheadle, Cheshire, SK8 3GR United Kingdom Tel: +44 (0) 345 712 5292 e-mail address of person : pdl-msds_author@agilent.com responsible for this SDS

1.4 Emergency telephone number

Emergency telephone : CH number (with hours of operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the	e substance or mixture		
Product definition	: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Mixture Mixture Mixture Mixture	
Classification accordi	ng to Regulation (EC) No. 1272	/2008 [CLP/GHS]	
Agilent-CGHblock			
H315	SKIN CORROSION/IRRITATIO	DN .	Category 2
H319	SERIOUS EYE DAMAGE/EYE	IRRITATION	Category 2
ULS-Cyanine3 H319 H360D	SERIOUS EYE DAMAGE/EYE REPRODUCTIVE TOXICITY	IRRITATION	Category 2 Category 1B
ULS-Cyanine5 H319 H360D	SERIOUS EYE DAMAGE/EYE REPRODUCTIVE TOXICITY	IRRITATION	Category 2 Category 1B

SECTION 2: Hazards identification

SECTION 2. Hazaru			
Agilent-CGHblock		oduct is classified as hazardous according to UK CLP tion SI 2019/720 as amended.	
ULS-Cyanine3	The pro	The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.	
ULS-Cyanine5	The pro	oduct is classified as hazardous according to UK CLP tion SI 2019/720 as amended.	
10X Labeling Solution	The pro	oduct is not classified as hazardous according to UK CLP tion SI 2019/720 as amended.	
Ingredients of unknown toxicity	: Kgilent-CGHblock	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of	
		unknown acute inhalation toxicity: 1 - 10%	
	ULS-Cyanine3	Percentage of the mixture consisting of ingredient(s) of	
		unknown acute dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of	
		unknown acute inhalation toxicity: 1 - 10%	
		Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%	
	ULS-Cyanine5	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%	
		Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%	
		Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%	
	10X Labeling Solution	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%	
Ingredients of unknown ecotoxicity	: Agilent-CGHblock	Contains 2.5% of components with unknown hazards to the aquatic environment	
	ULS-Cyanine3	Contains 5% of components with unknown hazards to the aquatic environment	
	ULS-Cyanine5	Contains 5% of components with unknown hazards to the aquatic environment	

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 Signal word : Agilent-CGHblock Warning ULS-Cyanine3 Danger ULS-Cyanine5 Danger 10X Labeling Solution No signal word.

SECTI	ON 2: Hazards identification

SECTION 2: Hazards	s identification	
Hazard statements	: Agilent-CGHblock	H315 - Causes skin irritation.
	-	H319 - Causes serious eye irritation.
	ULS-Cyanine3	H319 - Causes serious eye irritation.
	LILS OvenineE	H360D - May damage the unborn child.
	ULS-Cyanine5	H319 - Causes serious eye irritation. H360D - May damage the unborn child.
	10X Labeling Solution	
Precautionary statements	5	5
Prevention	: Agilent-CGHblock	P280 - Wear protective gloves. Wear eye or face protection.
		P264 - Wash thoroughly after handling.
	ULS-Cyanine3	P201 - Obtain special instructions before use.
		P280 - Wear protective gloves, protective clothing and eye or face protection.
	ULS-Cyanine5	P201 - Obtain special instructions before use.
	olo oyunnoo	P280 - Wear protective gloves, protective clothing and eye or
		face protection.
	10X Labeling Solution	Not applicable.
Response	: Agilent-CGHblock	P362 + P364 - Take off contaminated clothing and wash it
		before reuse.
		P302 + P352 - IF ON SKIN: Wash with plenty of water. 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
	ULS-Cyanine3	attention. P308 + P313 - IF exposed or concerned: Get medical advice
	0L0-Oyanine5	or attention.
		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.
	ULS-Cyanine5	P308 + P313 - IF exposed or concerned: Get medical advice
	-	or attention.
		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.
	10X Labeling Solution	
Storage	: Agilent-CGHblock	Not applicable.
	ULS-Cyanine3	Not applicable.
	ULS-Cyanine5 10X Labeling Solution	Not applicable. Not applicable.
Disposal	: Agilent-CGHblock	Not applicable.
Diopoodi	ULS-Cyanine3	P501 - Dispose of contents and container in accordance with
	•	all local, regional, national and international regulations.
	ULS-Cyanine5	P501 - Dispose of contents and container in accordance with
	10X Labeling Solution	all local, regional, national and international regulations. Not applicable.
Hazardous ingradiante		
Hazardous ingredients	: <mark></mark> ULS-Cyanine3 ULS-Cyanine5	N, N-dimethylformamide N, N-dimethylformamide
Supplemental label	: Agilent-CGHblock	Not applicable.
elements	ULS-Cyanine3	Not applicable.
	ULS-Cyanine5	Not applicable.
	10X Labeling Solution	Safety data sheet available on request.

SECTION 2: Hazards identification

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Kgilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not applicable. Restricted to professional users. Restricted to professional users. Not applicable.
Special packaging require	ments	
Containers to be fitted with child-resistant fastenings	 	Not applicable. Not applicable. Not applicable. Not applicable.
Tactile warning of danger	: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not applicable. Not applicable. Not applicable. Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	 Image: Figure 1.00 Figure 1.	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	None known. None known. None known. None known.

SECTION 3: Composition/information on ingredients

3.1 Substances	: Agilent-CGHblock ULS-Cyanine3	Mixture Mixture
	ULS-Cyanine5 10X Labeling Solution	Mixture Mixture

Product/ingredient name	Identifiers	%	Classification	Туре
Agilent-CGHblock				
sodium diethyldithiocarbamate	EC: 205-710-6 CAS: 148-18-5	<3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1)	[1]
ULS-Cyanine3				
N, N-dimethylformamide	EC: 200-679-5 CAS: 68-12-2 Index: 616-001-00-X	≥50 - <55	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 Repr. 1B, H360D	[1] [2]
ULS-Cyanine5				
N, N-dimethylformamide	EC: 200-679-5 CAS: 68-12-2 Index: 616-001-00-X	≥50 - <55	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Eye Irrit. 2, H319 Repr. 1B, H360D	[1] [2]
10X Labeling Solution				
Trometamol	EC: 201-064-4 CAS: 77-86-1	<10	Skin Irrit. 2, H315 Eye Irrit. 2, H319	[1]
te of issue/Date of revision : 20/0	03/2024 Date of previous issue	: 28/04/2021	Version :4	4/26

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)				
Genomic DNA ULS Labeling Kit, Part Number 5190-0419				
SECTION 3: Composition/information on ingredients				
		See Section 16 for the full text of the H statements declared above.		
contribute to the classific		the current knowledge of the supplier, are classified and ce require reporting in this section.		
Type Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	[1] Sub [2] Sub [1] Sub [2] Sub [1] Sub	ostance classified with a health or environmental hazard ostance classified with a health or environmental hazard ostance with a workplace exposure limit ostance classified with a health or environmental hazard ostance with a workplace exposure limit ostance classified with a health or environmental hazard		
	mits, if available, are listed in Se			
SECTION 4: First				
4.1 Description of first				
Eye contact	: Agilent-CGHblock	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. 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.		
	ULS-Cyanine5 10X Labeling Solution	Get medical attention. 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. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove		
Inhalation	: Kgilent-CGHblock	 any contact lenses. Get medical attention if irritation occurs. 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 if adverse health effects persist or are severe. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. 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. If unconscious, place in recovery position and get medical attention of decomposition products in a fire, symptoms may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person providing aid to give mouth-to-mouth resuscitation. Get medical attention. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under 		
	ULS-Cyanine5	medical surveillance for 48 hours. 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		

SECTION 4: First aid measures

	st alu measures	
	10X Labeling Solution	dangerous to the person providing aid to give mouth-to- mouth resuscitation. Get medical attention. 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. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin contact	: Agilent-CGHblock	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	ULS-Cyanine3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	ULS-Cyanine5	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	10X Labeling Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Agilent-CGHblock	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 if adverse health effects persist or are severe. 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.
	ULS-Cyanine3	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. 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
	ULS-Cyanine5	tight clothing such as a collar, tie, belt or waistband. 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. Never give anything by mouth to an unconscious person. If

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Genomic DNA ULS Labelin	Genomic DNA ULS Labeling Kit, Part Number 5190-0419		
SECTION 4: First ai	d measures		
	10X Labeling Solution	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. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.	
Protection of first-aiders	: Kgilent-CGHblock	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.	
	ULS-Cyanine3	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self- contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
	ULS-Cyanine5	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self- contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	
	10X Labeling Solution	No action shall be taken involving any personal risk or without suitable training.	

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

Eye contact	: Rgilent-CGHblock	Adverse symptoms may include the following: pain or irritation watering
	ULS-Cyanine3	redness Adverse symptoms may include the following: pain or irritation watering
	ULS-Cyanine5	redness Adverse symptoms may include the following: pain or irritation watering redness
	10X Labeling Solution	No specific data.
Inhalation	: Agilent-CGHblock	No specific data.
	ULS-Cyanine3	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	ULS-Cyanine5	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	10X Labeling Solution	No specific data.
Skin contact	: Rgilent-CGHblock	Adverse symptoms may include the following: irritation redness
	ULS-Cyanine3	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths
	ULS-Cyanine5	skeletal malformations Adverse symptoms may include the following: reduced foetal weight
ate of issue/Date of revision	: 20/03/2024 Date of previo	us issue : 28/04/2021 Version : 4

SECTION 4: First aid measures

	10X Labeling Solution	increase in foetal deaths skeletal malformations No specific data.
Ingestion	: Agilent-CGHblock ULS-Cyanine3	No specific data. Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	ULS-Cyanine5	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
	10X Labeling Solution	No specific data.
4.3 Indication of any im	mediate medical attention and	special treatment needed
Notes to physician	: Agilent-CGHblock	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	ULS-Cyanine3	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	ULS-Cyanine5	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	10X Labeling Solution	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	No specific treatment. No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	None known. None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Agilent-CGHblock	In a fire or if heated, a pressure increase will occur and the container may burst.
	ULS-Cyanine3	In a fire or if heated, a pressure increase will occur and the container may burst.
	ULS-Cyanine5	In a fire or if heated, a pressure increase will occur and the container may burst.
	10X Labeling Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Kgilent-CGHblock	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides halogenated compounds metal oxide/oxides

	ULS-Cyanine3	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	ULS-Cyanine5	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
	10X Labeling Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Rigilent-CGHblock	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.
	ULS-Cyanine3	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.
	ULS-Cyanine5	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.
	10X Labeling Solution	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	: A gilent-CGHblock	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
nghtoro	ULS-Cyanine3	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
	ULS-Cyanine5	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full
	10X Labeling Solution	face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

SECTION 5: Firefighting measures

SECTION 6: Accidental release measures

For non-emergency personnel	: Agilent-CGHblock	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.
	ULS-Cyanine3	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.
	ULS-Cyanine5	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do

SECTION 6: Accidental release measures

SECTION 6: Accide	ental release measu	res
		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.
	10X Labeling Solution	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. Put on appropriate personal protective equipment.
For emergency responders	: Agilent-CGHblock	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".
	ULS-Cyanine3	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-
	ULS-Cyanine5	emergency personnel". 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-
	10X Labeling Solution	emergency personnel". 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".
6.2 Environmental precautions	: Kgilent-CGHblock	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
	ULS-Cyanine3	(sewers, waterways, soil or air). 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
	ULS-Cyanine5	(sewers, waterways, soil or air). 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
	10X Labeling Solution	(sewers, waterways, soil or air). 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).
6.3 Methods and material f	for containment and cleanii	ng up
Methods for cleaning up	: Agilent-CGHblock	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
	ULS-Cyanine3	of via a licensed waste disposal contractor. 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
	ULS-Cyanine5	place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. 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
	10X Labeling Solution	of via a licensed waste disposal contractor. 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

SECTION 6: Accidental release measures

place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

: See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe h	andling					
Protective measures	: Agilent-CGHblock	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. 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.				
	ULS-Cyanine3	Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.				
	ULS-Cyanine5 10X Labeling Solution	 Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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. Put on appropriate personal protective equipment (see Section 8). 				
Advice on general occupational hygiene	: Agilent-CGHblock	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.				
	ULS-Cyanine3	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.				
	ULS-Cyanine5 10X Labeling Solution	 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. Eating, drinking and smoking should be prohibited in areas 				
		where this material is handled, stored and processed.				

SECTION 7: Handling and storage

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

7.2 Conditions for safe stor	age, including any incomp	patibilities
Storage	: Kgilent-CGHblock	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
	ULS-Cyanine3	before handling or use. 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. Store locked up. 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.
	ULS-Cyanine5	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. Store locked up. 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.
	10X Labeling Solution	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.
7.3 Specific end use(s) Recommendations	: Agilent-CGHblock ULS-Cyanine3	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	ULS-Cyanine5 10X Labeling Solution : Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Industrial applications, Professional applications. Industrial applications, Professional applications. Not available. Not available. Not available. Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
VLS-Cyanine3	
N, N-dimethylformamide	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 30 mg/m ³ 15 minutes.
	STEL: 10 ppm 15 minutes.
	TWA: 5 ppm 8 hours.
	TWA: 15 mg/m³ 8 hours.
ULS-Cyanine5	
N, N-dimethylformamide	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 30 mg/m ³ 15 minutes.
	STEL: 10 ppm 15 minutes.
	TWA: 5 ppm 8 hours.
	TWA: 15 mg/m ³ 8 hours.

Biological exposure indices

No exposure indices known.

Recommended	: Reference should be made to appropriate monitoring standards. Reference to national
monitoring procedures	guidance documents for methods for the determination of hazardous substances will
	also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
✓LS-Cyanine3					
N, N-dimethylformamide	DNEL	Long term Inhalation	6 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.1 mg/kg bw/day	Workers	Systemic
ULS-Cyanine5					
N, N-dimethylformamide	DNEL	Long term Inhalation	6 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	1.1 mg/kg bw/day	Workers	Systemic
10X Labeling Solution					
Trometamol	DNEL	Long term Oral	8.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	29 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	83.3 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	117.5 mg/ m ³	Workers	Systemic
	DNEL	Long term Dermal	166.7 mg/ kg bw/day	Workers	Systemic

PNECs

No PNECs available

8.2 Exposure controls

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.

Individual protection measures

Date of issue/Date of revision : 20/03/2024 Date of pl	evious issue : 28/04/2021 Version : 4	13/26
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SECTION 8: Exposure controls/personal protection

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.
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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance Physical state : Agilent-CGHblock Liquid. ULS-Cyanine3 Liquid. [Clear.] ULS-Cyanine5 Liquid. 10X Labeling Solution Liquid. Colour Agilent-CGHblock Not available. ULS-Cyanine3 Pink [Light] ULS-Cyanine5 Blue. [Light] 10X Labeling Solution Colourless. Odour : Agilent-CGHblock Not available. ULS-Cyanine3 Amine-like. [Slight] **ULS-Cyanine5** Amine-like. [Slight] Odourless. **10X Labeling Solution Odour threshold** : Agilent-CGHblock Not available. Not available. ULS-Cyanine3 ULS-Cyanine5 Not available. **10X Labeling Solution** Not available. Agilent-CGHblock Not available. Melting point/freezing ULS-Cyanine3 Not available. point ULS-Cyanine5 Not available. **10X Labeling Solution** Not available.

SECTION 9: Physical and chemical properties

SECTION 9: Physica	11	and chemical pro	perties						
Initial boiling point and boiling range	:	Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not available. Not available. Not available. 95 to 100°C						
Flammability	:	Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not applicable. Not applicable. Not applicable. Not applicable.						
Upper/lower flammability or explosive limits	:	Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not available. Not available. Not available. Not available.						
Flash point	1				Clo	sed cup		0	pen cup
		Ingredient name	-	°C		Method		°C	 Method
		LS-Cyanine3							
		N, N-dimethylformamide		57.5		DIN 51755	5 -		-
		ULS-Cyanine5		57.5		DIN 51755	-		
Auto-ignition		N, N-dimethylformamide		57.5		1		lethod	-
temperature	1	Ingredient name			°(emou	
		₩LS-Cyanine3 N, N-dimethylformamide			44	5	-		
		ULS-Cyanine5							
		N, N-dimethylformamide			44	5	-		
Decomposition temperature	:	Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not available. Not available. Not available. Not available.						
рН	:	Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not available. Not available. Not available. 7 to 8						
Viscosity	:	Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not available. Not available. Not available. Not available.						
Solubility(ies)	1	Media		Re	sul	t			
		Agilent-CGHblock							
		water ULS-Cyanine3		Sol	uble	9			
		water		Not	t so	luble			
		ULS-Cyanine5 water		Not	t sol	luble			
		10X Labeling Solution							
		water	•• •		uble	Э			
Partition coefficient: n- octanol/water	-	Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 10X Labeling Solution	Not applicable Not applicable Not applicable Not applicable						
Vapour pressure	:	-							

SECTION 9: Physical and chemical properties

			Vapou	r Pressur	e at 20°C	Vapour pressure at 50°C		
	Ingredier	it name	mm Hg	kPa	Method	mm Hg	kPa	Method
	Agilent-C	GHblock						
	water		17.5	2.3	-	92.258	12.3	-
	ULS-Cya	nine3						
	water		17.5	2.3	-	92.258	12.3	-
	N, N- dimethylfo	ormamide	3.7	0.49	-	-	-	-
	ULS-Cya	nine5						
	water		17.5	2.3	-	92.258	12.3	-
	N, N- dimethylfo	ormamide	3.7	0.49	-	-	-	-
	10X Labe Solution	ling						
	water		17.5	2.3	-	92.258	12.3	-
	trometam	ol	<0.00075006	<0.0001	-	-	-	-
Evaporation rate	: Agilent-CG ULS-Cyan ULS-Cyan 10X Label	ine3	Not Not	available available available available				
Relative density	: Agilent-CO ULS-Cyan ULS-Cyan 10X Label	ine3	Not Not	available available available available				
Vapour density	: Agilent-CG ULS-Cyan ULS-Cyan	GHblock ine3	Not Not Not	available available available available				
Explosive properties	: Agilent-CG ULS-Cyan ULS-Cyan	Hblock ine3	Not Not Not	available. available. available. available.				
Oxidising properties	: Agilent-CG ULS-Cyan ULS-Cyan	GHblock ine3	Not Not Not	available available available available				
Particle characteristics		-						
Median particle size	: Agilent-CO ULS-Cyan ULS-Cyan 10X Label	ine3	Not : Not :	applicable applicable applicable applicable	e. e.			

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Agilent-CGHblock	No specific test data related to reactivity available for this product or its ingredients.
	ULS-Cyanine3	No specific test data related to reactivity available for this product or its ingredients.
	ULS-Cyanine5	No specific test data related to reactivity available for this product or its ingredients.
	10X Labeling Solution	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Agilent-CGHblock	The product is stable.
	ULS-Cyanine3	The product is stable.
	ULS-Cyanine5	The product is stable.
	10X Labeling Solution	The product is stable.
10.3 Possibility of hazardous reactions	: Agilent-CGHblock	Under normal conditions of storage and use, hazardous reactions will not occur.
	ULS-Cyanine3	Under normal conditions of storage and use, hazardous reactions will not occur.
	ULS-Cyanine5	Under normal conditions of storage and use, hazardous reactions will not occur.
	10X Labeling Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Agilent-CGHblock	No specific data.
	ULS-Cyanine3	No specific data.
	ULS-Cyanine5	No specific data.
	10X Labeling Solution	No specific data.
10.5 Incompatible	: Agilent-CGHblock	May react or be incompatible with oxidising materials.
materials	ULS-Cyanine3	May react or be incompatible with oxidising materials.
	ULS-Cyanine5	May react or be incompatible with oxidising materials.
	10X Labeling Solution	May react or be incompatible with oxidising materials.
10.6 Hazardous	: Agilent-CGHblock	Under normal conditions of storage and use, hazardous
decomposition products	LILS Cupping?	decomposition products should not be produced.
	ULS-Cyanine3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	ULS-Cyanine5	Under normal conditions of storage and use, hazardous
	,	decomposition products should not be produced.
	10X Labeling Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
OFOTION 44. Taxia		_

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Result	Species	Dose	Exposure
LD50 Oral	Rat	1500 ma/ka	-
LC50 Inhalation Vapour	Rat	3421 ppm	1 hours
LC50 Inhalation Vapour	Rat	1948 ppm	4 hours
LD50 Oral	Rat	4000 mg/kg	-
LC50 Inhalation Vapour	Rat	3421 ppm	1 hours
LC50 Inhalation Vapour	Rat		4 hours
LD50 Oral	Rat	4000 mg/kg	-
	LD50 Oral LC50 Inhalation Vapour LC50 Inhalation Vapour LD50 Oral LC50 Inhalation Vapour LC50 Inhalation Vapour	LD50 OralRatLC50 Inhalation Vapour LC50 Inhalation Vapour LD50 OralRat RatLC50 Inhalation Vapour LC50 Inhalation VapourRat Rat	LD50 OralRat1500 mg/kgLC50 Inhalation Vapour LC50 Inhalation Vapour LD50 OralRat Rat Rat3421 ppm 1948 ppm 4000 mg/kgLC50 Inhalation Vapour LC50 Inhalation Vapour LC50 Inhalation Vapour RatRat3421 ppm 1948 ppm 1948 ppm

CTION 11. Toxicological information

5	ECTION 11: TOXICOL	ogical information				
	10X Labeling Solution Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-	
			·	·		

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)
Agilent-CGHblock					
Agilent-CGHblock	150000.0	N/A	N/A	N/A	N/A
sodium diethyldithiocarbamate	1500	N/A	N/A	N/A	N/A
ULS-Cyanine3					
ULS-Cyanine3	N/A	2754.8	N/A	20.2	N/A
N, N-dimethylformamide	4000	1500	N/A	11	N/A
ULS-Cyanine5					
ULS-Cyanine5	N/A	2754.8	N/A	20.2	N/A
N, N-dimethylformamide	4000	1500	N/A	11	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
VLS-Cyanine3 N, N-dimethylformamide	Eyes - Severe irritant	Rabbit	-	100 %	-
ULS-Cyanine5 N, N-dimethylformamide	Eyes - Severe irritant	Rabbit	-	100 %	-
10X Labeling Solution Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	-	25 % 500 mg	-

Sensitiser

Mutagenicity

Conclusion/Summary	. :	Not available.
ounclusion/ounnull		not available.

: Not available.

- **Conclusion/Summary** : Not available.
- **Carcinogenicity Conclusion/Summary**
- **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) Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: Agilent-CGHblock ULS-Cyanine3 ULS-Cyanine5 **10X Labeling Solution** Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes. Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

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Potential acute health effects

SECTION 11: Toxicological information

	logical information	
Inhalation	: Agilent-CGHblock ULS-Cyanine3	No known significant effects or critical hazards. No known significant effects or critical hazards.
	ULS-Cyanine5	No known significant effects or critical hazards.
	10X Labeling Solution	No known significant effects or critical hazards.
Ingestion	: Agilent-CGHblock	No known significant effects or critical hazards.
	ULS-Cyanine3 ULS-Cyanine5	No known significant effects or critical hazards. No known significant effects or critical hazards.
	10X Labeling Solution	No known significant effects or critical hazards.
Skin contact	: Agilent-CGHblock	Causes skin irritation.
	ULS-Cyanine3	No known significant effects or critical hazards.
	ULS-Cyanine5	No known significant effects or critical hazards.
	10X Labeling Solution	No known significant effects or critical hazards.
Eye contact	: Agilent-CGHblock	Causes serious eye irritation.
	ULS-Cyanine3	Causes serious eye irritation.
	ULS-Cyanine5 10X Labeling Solution	Causes serious eye irritation. No known significant effects or critical hazards.
Symptoms related to the p	•	5
Inhalation	: Agilent-CGHblock ULS-Cyanine3	No specific data. Adverse symptoms may include the following:
	OLO-Oyanneo	reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	ULS-Cyanine5	Adverse symptoms may include the following:
		reduced foetal weight increase in foetal deaths
		skeletal malformations
	10X Labeling Solution	No specific data.
Ingestion	: Agilent-CGHblock	No specific data.
0	ULS-Cyanine3	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths skeletal malformations
	ULS-Cyanine5	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	10X Labeling Solution	No specific data.
Skin contact	: Agilent-CGHblock	Adverse symptoms may include the following:
		irritation redness
	ULS-Cyanine3	Adverse symptoms may include the following:
		reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	ULS-Cyanine5	Adverse symptoms may include the following: reduced foetal weight
		increase in foetal deaths
		skeletal malformations
	10X Labeling Solution	No specific data.
Eye contact	: 🗚 gilent-CGHblock	Adverse symptoms may include the following:
		pain or irritation
		watering redness
	ULS-Cyanine3	Adverse symptoms may include the following:
		pain or irritation
		watering
		redness
	ULS-Cyanine5	Adverse symptoms may include the following:
		pain or irritation watering
		redness
	10X Labeling Solution	No specific data.

SECTION 11: Toxicological information

Delayed and immediate e	cts 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 e	<u>icts</u>	
Conclusion/Summary	Not available.	
General	Kgilent-CGHblockNo known significant effects or critical hazards.ULS-Cyanine3No known significant effects or critical hazards.ULS-Cyanine5No known significant effects or critical hazards.10X Labeling SolutionNo known significant effects or critical hazards.	
Carcinogenicity	Kgilent-CGHblockNo known significant effects or critical hazards.ULS-Cyanine3No known significant effects or critical hazards.ULS-Cyanine5No known significant effects or critical hazards.10X Labeling SolutionNo known significant effects or critical hazards.	
Mutagenicity	Agilent-CGHblockNo known significant effects or critical hazards.ULS-Cyanine3No known significant effects or critical hazards.ULS-Cyanine5No known significant effects or critical hazards.10X Labeling SolutionNo known significant effects or critical hazards.	
Reproductive toxicity	Kgilent-CGHblockNo known significant effects or critical hazards.ULS-Cyanine3May damage the unborn child.ULS-Cyanine5May damage the unborn child.10X Labeling SolutionNo known significant effects or critical hazards.	

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Agilent-CGHblock			
sodium diethyldithiocarbamate	Acute EC50 1400 μg/l Fresh water	Algae - Green algae - Chlorella pyrenoidosa	96 hours
	Acute LC50 910 μg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 6900 µg/l Fresh water	Fish - Guppy - Poecilia reticulata	96 hours
ULS-Cyanine3			
N, N-dimethylformamide	Acute EC50 4500 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	48 hours
	Acute LC50 >100000 μg/l Marine water	Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> - Adult	48 hours
	Acute LC50 7100000 μg/l Fresh water	Fish - Bluegill - <i>Lepomis</i> <i>macrochirus</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 1500 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> - Embryo	30 days
ULS-Cyanine5			
N, N-dimethylformamide	Acute EC50 4500 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> <i>magna</i>	48 hours
ate of issue/Date of revision	: 20/03/2024 Date of previous issue :	28/04/2021 Version :4	20/

SECTION 12: Ecological information

SECTION 12: ECOLO	gical information		
	Acute LC50 >100000 μg/l Marine water	Crustaceans - Common shrimp, sand shrimp - <i>Crangon crangon</i> - Adult	48 hours
	Acute LC50 7100000 μg/l Fresh water	Fish - Bluegill - <i>Lepomis</i> <i>macrochirus</i> - Juvenile (Fledgling, Hatchling, Weanling)	96 hours
	Chronic NOEC 1500 mg/l Fresh water	Daphnia - Water flea - Daphnia magna	21 days
	Chronic NOEC 0.1 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - <i>Oncorhynchus mykiss</i> - Embryo	30 days
10X Labeling Solution			
Trometamol	Acute EC50 >980 mg/l Fresh water Acute NOEC 520 mg/l Fresh water	Daphnia Daphnia	48 hours 48 hours
Conclusion/Summary	: Not available.		•

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<mark>I∕ÍLS-Cyanine3</mark> N, N-dimethylformamide	-	100 % - Readily - 21 days	-	-
ULS-Cyanine5 N, N-dimethylformamide	-	100 % - Readily - 21 days	-	-
10X Labeling Solution Trometamol	OECD 301F Ready Biodegradability - Manometric Respirometry Test	97.1 % - Readily - 28 days	30 mg/l	-

Conclusion/Summary : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Agilent-CGHblock sodium diethyldithiocarbamate	-	-	Readily
ULS-Cyanine3 N, N-dimethylformamide	-	-	Readily
ULS-Cyanine5 N, N-dimethylformamide	-	-	Readily
10X Labeling Solution 10X Labeling Solution Trometamol	-		Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Agilent-CGHblock sodium diethyldithiocarbamate	-1.1	-	Low
ULS-Cyanine3 N, N-dimethylformamide	-1.01	0.79	Low
ULS-Cyanine5			
Date of issue/Date of revision	: 20/03/2024 Date of previous	issue : 28/04/2021	Version : 4 21/26

12.4 Mobility in soil Soil/water partition : Not available. coefficient (Koc) Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Other adverse effects	: No known significant effects or critical haza	rds.
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SECTION 13: Disposal considerations

13.1 Waste treatment methods Product Methods of disposal : 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. Hazardous waste : The classification of the product may meet the criteria for a hazardous waste. **Packaging** Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. **Special precautions** 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

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

SECTION 14: Transport information

14.6 Special precautions	: Transport within user's premises: always transport in closed containers that are
for user	upright and secure. Ensure that persons transporting the product know what to do in the
	event of an accident or spillage.

14.7 Transport in bulk: Not available.according to IMOinstruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>UK (GB)/REACH</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
VLS-Cyanine3 Toxic to reproduction	N,N-dimethylformamide	Candidate	-	12/19/2012
ULS-Cyanine5 Toxic to reproduction	N,N-dimethylformamide	Candidate	-	12/19/2012

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product / Ingredient name	Identifiers	Status	
Agilent-CGHblock			
Agilent-CGHblock		3	
ULS-Cyanine3			
ULS-Cyanine3		3	
,		30	
N, N-dimethylformamide		30	
-		72	
ULS-Cyanine5			
ULS-Cyanine5		3	
		30	
N, N-dimethylformamide		30	
•		72	

Label

а.	Agilent-CGHblock
	ULS-Cyanine3
	ULS-Cyanine5
	10X Labeling Solution

Not applicable. Restricted to professional users. Restricted to professional users. Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive. <u>EU regulations</u>

SECTION 15: Regulatory information

ezenien ien nogan	
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed
15.2 Chemical safety assessment	: This product contains substances for which Chemical Safety Assessments might still be required.
International regulations	
Chemical Weapon Conven	tion List Schedules I, II & III Chemicals
Not listed.	
Montreal Protocol Not listed.	
Stockholm Convention on Not listed.	Persistent Organic Pollutants
Rotterdam Convention on Not listed.	Prior Informed Consent (PIC)
UNECE Aarhus Protocol of Not listed.	n POPs and Heavy Metals
Inventory list	
United States	: Not determined.
SECTION 16: Other	information

SECTION 16: Other information

Indicates information that has changed from previously issued version.

	5 1 5
Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.
	1272/2008]
	DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level
	EUH statement = CLP-specific Hazard statement
	N/A = Not available
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification
Agilent-CGHblock	
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
ULS-Cyanine3	
Eye Irrit. 2, H319	Calculation method
Repr. 1B, H360D	Calculation method
ULS-Cyanine5	
Eye Irrit. 2, H319	Calculation method
Repr. 1B, H360D	Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

SECTION 10.	Other information				
Agilent-					
CGHblock					
H302	Harmful if swallowed.				
H314	Causes severe skin burns and eye damage.				
H315	Causes skin irritation.				
H318	Causes serious eye damage.				
H319	ses serious eye irritation.				
H400	Very toxic to aquatic life.				
ULS-Cyanine3	ULS-Cvanine3				
H226	Flammable liquid and vapour.				
H312	Harmful in contact with skin.				
H319	Causes serious eye irritation.				
H332	Harmful if inhaled.				
H360D	May damage the unborn child.				
ULS-Cyanine5	ULS-Cvanine5				
H226	Flammable liquid and vapour.				
H312	Harmful in contact with skin.				
H319	Causes serious eye irritation.				
H332	Harmful if inhaled.				
H360D	May damage the unborn child.				
10X Labeling					
Solution					
H315	Causes skin irritation.				
H319	Causes serious eye irritation.				
Full text of classifications					
Agilent-CGHblo					
Acute Tox. 4	ACUTE TOXICITY - Category 4				
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1				
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1				
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2				
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B				
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2				
ULS-Cyanine3					
Acute Tox. 4	ACUTE TOXICITY - Category 4				
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2				
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3				
Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B				

ULS-Cyanine5

	UL3-Cyannes		
	Acute Tox. 4	ACUTE TOXICITY - Category 4	
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3	
	Repr. 1B	REPRODUCTIVE TOXICITY - Category 1B	
	10X Lobaling		
	10X Labeling		
	Solution		
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2	
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2	
D	ate of issue/ Date of	: 20/03/2024	
re	evision		
D	ate of previous issue	: 28/04/2021	
V	ersion	: 4	
	Notice to reader		

SECTION 16: Other information

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.