

SAFETY DATA SHEET



Agilent RNA 6000 Pico Reagents, Part Number 5067-1514

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

1.1 Product identifier

Product name	: Agilent RNA 6000 Pico Reagents, Part Number 5067-1514	
Part No. (Kit)	: 5067-1514	
Part No.	: <u>Reagents RNA Pico</u>	<u>G2938-80024</u>
	RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	<u>RNA 6000 Pico ladder</u>	<u>G2938-80039</u>
	RNA Pico Ladder	Not available.

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

Identified uses

Analytical chemistry.	
Research and Development	
RNA Pico Conditioning Solution	1 x 0.3 ml
RNA Pico Gel Matrix	2 x 1.2 ml
RNA Pico Dye Concentrate	1 x 0.035 ml
RNA Pico Marker	4 x 0.6 ml
RNA Pico Ladder	1 x 0.01 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: RNA Pico Conditioning Solution	Mixture
	RNA Pico Gel Matrix	Mixture
	RNA Pico Dye Concentrate	Mixture
	RNA Pico Marker	Mixture
	RNA Pico Ladder	Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

RNA Pico Dye Concentrate

H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Date of issue/Date of revision : 05/09/2017


SECTION 2: Hazards identification

Ingredients of unknown toxicity	: RNA Pico Conditioning Solution	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	RNA Pico Gel Matrix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	RNA Pico Dye Concentrate	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
Ingredients of unknown ecotoxicity	: RNA Pico Conditioning Solution	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.6%
	RNA Pico Gel Matrix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.6%

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	: RNA Pico Dye Concentrate	
Signal word	: RNA Pico Conditioning Solution	No signal word.
	RNA Pico Gel Matrix	No signal word.
	RNA Pico Dye Concentrate	Warning
	RNA Pico Marker RNA Pico Ladder	No signal word. No signal word.
Hazard statements	: RNA Pico Conditioning Solution	No known significant effects or critical hazards.
	RNA Pico Gel Matrix	No known significant effects or critical hazards.
	RNA Pico Dye Concentrate	H319 - Causes serious eye irritation.
	RNA Pico Marker	No known significant effects or critical hazards.
	RNA Pico Ladder	No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: RNA Pico Conditioning Solution	Not applicable.
	RNA Pico Gel Matrix	Not applicable.
	RNA Pico Dye Concentrate	P280 - Wear eye or face protection.
	RNA Pico Marker	P264 - Wash hands thoroughly after handling.
	RNA Pico Ladder	Not applicable.

SECTION 2: Hazards identification

Response	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not applicable. Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Not applicable. Not applicable.
Storage	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Hazardous ingredients	: RNA Pico Dye Concentrate	Not applicable.
Supplemental label elements	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	None known. None known. None known. None known. None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances	:	RNA Pico Conditioning Solution	Mixture
		RNA Pico Gel Matrix	Mixture
		RNA Pico Dye Concentrate	Mixture
		RNA Pico Marker	Mixture
		RNA Pico Ladder	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
RNA Pico Dye Concentrate Polyoxyethylene octyl phenyl ether	CAS: 9002-93-1	<2.5	Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	[1] [5]

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

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	RNA Pico Conditioning Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		RNA Pico Gel Matrix	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		RNA Pico Dye Concentrate	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.
		RNA Pico Marker	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		RNA Pico Ladder	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	:	RNA Pico Conditioning Solution	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.
		RNA Pico Gel Matrix	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.
		RNA Pico Dye	Remove victim to fresh air and keep at rest in a position

SECTION 4: First aid measures

	Concentrate	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.
	RNA Pico Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	RNA Pico Ladder	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: RNA Pico Conditioning Solution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RNA Pico Gel Matrix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RNA Pico Dye Concentrate	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	RNA Pico Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RNA Pico Ladder	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: RNA Pico Conditioning Solution	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	RNA Pico Gel Matrix	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	RNA Pico Dye Concentrate	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.
	RNA Pico Marker	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not

SECTION 4: First aid measures

	RNA Pico Ladder	induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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	: RNA Pico Conditioning Solution	No action shall be taken involving any personal risk or without suitable training.
	: RNA Pico Gel Matrix	No action shall be taken involving any personal risk or without suitable training.
	: RNA Pico Dye Concentrate	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.
	: RNA Pico Marker	No action shall be taken involving any personal risk or without suitable training.
	: RNA Pico Ladder	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: RNA Pico Conditioning Solution	No known significant effects or critical hazards.
	: RNA Pico Gel Matrix	No known significant effects or critical hazards.
	: RNA Pico Dye Concentrate	Causes serious eye irritation.
	: RNA Pico Marker	No known significant effects or critical hazards.
	: RNA Pico Ladder	No known significant effects or critical hazards.
Inhalation	: RNA Pico Conditioning Solution	No known significant effects or critical hazards.
	: RNA Pico Gel Matrix	No known significant effects or critical hazards.
	: RNA Pico Dye Concentrate	No known significant effects or critical hazards.
	: RNA Pico Marker	No known significant effects or critical hazards.
	: RNA Pico Ladder	No known significant effects or critical hazards.
Skin contact	: RNA Pico Conditioning Solution	No known significant effects or critical hazards.
	: RNA Pico Gel Matrix	No known significant effects or critical hazards.
	: RNA Pico Dye Concentrate	No known significant effects or critical hazards.
	: RNA Pico Marker	No known significant effects or critical hazards.
	: RNA Pico Ladder	No known significant effects or critical hazards.
Ingestion	: RNA Pico Conditioning Solution	No known significant effects or critical hazards.
	: RNA Pico Gel Matrix	No known significant effects or critical hazards.
	: RNA Pico Dye Concentrate	No known significant effects or critical hazards.
	: RNA Pico Marker	No known significant effects or critical hazards.
	: RNA Pico Ladder	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: RNA Pico Conditioning Solution	No specific data.
	: RNA Pico Gel Matrix	No specific data.
	: RNA Pico Dye Concentrate	Adverse symptoms may include the following:
		pain or irritation watering redness

SECTION 4: First aid measures

	RNA Pico Marker	No specific data.
	RNA Pico Ladder	No specific data.
Inhalation	: RNA Pico Conditioning Solution	No specific data.
	RNA Pico Gel Matrix	No specific data.
	RNA Pico Dye Concentrate	No specific data.
	RNA Pico Marker	No specific data.
	RNA Pico Ladder	No specific data.
Skin contact	: RNA Pico Conditioning Solution	No specific data.
	RNA Pico Gel Matrix	No specific data.
	RNA Pico Dye Concentrate	No specific data.
	RNA Pico Marker	No specific data.
	RNA Pico Ladder	No specific data.
Ingestion	: RNA Pico Conditioning Solution	No specific data.
	RNA Pico Gel Matrix	No specific data.
	RNA Pico Dye Concentrate	No specific data.
	RNA Pico Marker	No specific data.
	RNA Pico Ladder	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: RNA Pico Conditioning 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.
	RNA Pico Gel Matrix	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.
	RNA Pico Dye Concentrate	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Pico Marker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Pico Ladder	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: RNA Pico Conditioning Solution	No specific treatment.
	RNA Pico Gel Matrix	No specific treatment.
	RNA Pico Dye Concentrate	No specific treatment.
	RNA Pico Marker	No specific treatment.
	RNA Pico Ladder	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: RNA Pico Conditioning Solution	Use an extinguishing agent suitable for the surrounding fire.
	RNA Pico Gel Matrix	Use an extinguishing agent suitable for the surrounding fire.
	RNA Pico Dye Concentrate	Use an extinguishing agent suitable for the surrounding fire.
	RNA Pico Marker	Use an extinguishing agent suitable for the surrounding fire.
	RNA Pico Ladder	Use an extinguishing agent suitable for the surrounding fire.

SECTION 5: Firefighting measures

Unsuitable extinguishing media	: RNA Pico Conditioning Solution	None known.
	RNA Pico Gel Matrix	None known.
	RNA Pico Dye Concentrate	None known.
	RNA Pico Marker	None known.
	RNA Pico Ladder	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: RNA Pico Conditioning Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Pico Gel Matrix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Pico Dye Concentrate	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Pico Marker	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Pico Ladder	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: RNA Pico Conditioning Solution	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
	RNA Pico Gel Matrix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
	RNA Pico Dye Concentrate	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	RNA Pico Marker	No specific data.
	RNA Pico Ladder	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: RNA Pico Conditioning 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.
	RNA Pico Gel Matrix	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.
	RNA Pico Dye Concentrate	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.
	RNA Pico Marker	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.
	RNA Pico Ladder	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.

SECTION 5: Firefighting measures

Special protective equipment for fire-fighters	: RNA Pico Conditioning Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	RNA Pico Gel Matrix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	RNA Pico Dye Concentrate	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	RNA Pico Marker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	RNA Pico Ladder	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: RNA Pico Conditioning 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.
	RNA Pico Gel Matrix	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.
	RNA Pico Dye Concentrate	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.
	RNA Pico Marker	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.
	RNA Pico Ladder	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.

SECTION 6: Accidental release measures

For emergency responders	: RNA Pico Conditioning Solution	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".
	RNA Pico Gel Matrix	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".
	RNA Pico Dye Concentrate	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".
	RNA Pico Marker	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".
	RNA Pico Ladder	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	: RNA Pico Conditioning Solution	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).
	RNA Pico Gel Matrix	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).
	RNA Pico Dye Concentrate	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).
	RNA Pico Marker	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).
	RNA Pico Ladder	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 for containment and cleaning up

Methods for cleaning up	: RNA Pico Conditioning Solution	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.
	RNA Pico Gel Matrix	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.
	RNA Pico Dye Concentrate	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.
	RNA Pico Marker	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively,

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SECTION 6: Accidental release measures

RNA Pico Ladder

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.

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.

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 handling

Protective measures	: RNA Pico Conditioning Solution	Put on appropriate personal protective equipment (see Section 8).
	RNA Pico Gel Matrix	Put on appropriate personal protective equipment (see Section 8).
	RNA Pico Dye Concentrate	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.
	RNA Pico Marker	Put on appropriate personal protective equipment (see Section 8).
	RNA Pico Ladder	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: RNA Pico Conditioning 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.
	RNA Pico Gel Matrix	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.
	RNA Pico Dye Concentrate	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.
	RNA Pico Marker	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.
	RNA Pico Ladder	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.

SECTION 7: Handling and storage

7.2 Conditions for safe storage, including any incompatibilities

Storage

RNA Pico Conditioning Solution	Storage temperature: 4°C (39.2°F). 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.
RNA Pico Gel Matrix	Storage temperature: 4°C (39.2°F). 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.
RNA Pico Dye Concentrate	Storage temperature: 4°C (39.2°F). 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.
RNA Pico Marker	Storage temperature: 4°C (39.2°F). 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.
RNA Pico Ladder	Storage temperature: -20°C (-4°F). 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)

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Recommendations	: RNA Pico Conditioning Solution	Industrial applications, Professional applications.
	RNA Pico Gel Matrix	Industrial applications, Professional applications.
	RNA Pico Dye Concentrate	Industrial applications, Professional applications.
	RNA Pico Marker	Industrial applications, Professional applications.
	RNA Pico Ladder	Industrial applications, Professional applications.
Industrial sector specific solutions	: RNA Pico Conditioning Solution	Not applicable.
	RNA Pico Gel Matrix	Not applicable.
	RNA Pico Dye Concentrate	Not applicable.
	RNA Pico Marker	Not applicable.
	RNA Pico Ladder	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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/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.
- 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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: RNA Pico Conditioning Solution	Liquid.
	: RNA Pico Gel Matrix	Liquid.
	: RNA Pico Dye Concentrate	Liquid.
	: RNA Pico Marker	Liquid.
	: RNA Pico Ladder	Liquid.
Colour	: RNA Pico Conditioning Solution	Not available.
	: RNA Pico Gel Matrix	Not available.
	: RNA Pico Dye Concentrate	Blue.
	: RNA Pico Marker	Not available.
	: RNA Pico Ladder	Not available.
Odour	: RNA Pico Conditioning Solution	Not available.
	: RNA Pico Gel Matrix	Not available.
	: RNA Pico Dye Concentrate	Not available.
	: RNA Pico Marker	Not available.
	: RNA Pico Ladder	Not available.
Odour threshold	: RNA Pico Conditioning Solution	Not available.
	: RNA Pico Gel Matrix	Not available.
	: RNA Pico Dye Concentrate	Not available.
	: RNA Pico Marker	Not available.
	: RNA Pico Ladder	Not available.

SECTION 9: Physical and chemical properties

pH	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Melting point/freezing point	: RNA Pico Conditioning Solution	0°C
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	18.5°C
	RNA Pico Marker	0°C
	RNA Pico Ladder	0°C
Initial boiling point and boiling range	: RNA Pico Conditioning Solution	100°C
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	189°C
	RNA Pico Marker	100°C
	RNA Pico Ladder	100°C
Flash point	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Closed cup: 61 to 93.3°C
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Evaporation rate	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	0.026 (butyl acetate = 1)
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Flammability (solid, gas)	: RNA Pico Conditioning Solution	Not applicable.
	RNA Pico Gel Matrix	Not applicable.
	RNA Pico Dye Concentrate	Not applicable.
	RNA Pico Marker	Not applicable.
	RNA Pico Ladder	Not applicable.
Upper/lower flammability or explosive limits	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Vapour pressure	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	0.056 kPa [room temperature]
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.

SECTION 9: Physical and chemical properties

Vapour density	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	2.7 [Air = 1]
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Relative density	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	1.1
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Solubility(ies)	: RNA Pico Conditioning Solution	Easily soluble in the following materials: cold water and hot water.
	RNA Pico Gel Matrix	Easily soluble in the following materials: cold water and hot water.
	RNA Pico Dye Concentrate	Soluble in the following materials: cold water and hot water.
	RNA Pico Marker	Easily soluble in the following materials: cold water and hot water.
	RNA Pico Ladder	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Auto-ignition temperature	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Decomposition temperature	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	140 to 189°C
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Viscosity	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.
Explosive properties	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.

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SECTION 9: Physical and chemical properties

Oxidising properties	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: RNA Pico Conditioning Solution	No specific test data related to reactivity available for this product or its ingredients.
	RNA Pico Gel Matrix	No specific test data related to reactivity available for this product or its ingredients.
	RNA Pico Dye Concentrate	No specific test data related to reactivity available for this product or its ingredients.
	RNA Pico Marker	No specific test data related to reactivity available for this product or its ingredients.
	RNA Pico Ladder	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: RNA Pico Conditioning Solution	The product is stable.
	RNA Pico Gel Matrix	The product is stable.
	RNA Pico Dye Concentrate	The product is stable.
	RNA Pico Marker	The product is stable.
	RNA Pico Ladder	The product is stable.
10.3 Possibility of hazardous reactions	: RNA Pico Conditioning Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
	RNA Pico Gel Matrix	Under normal conditions of storage and use, hazardous reactions will not occur.
	RNA Pico Dye Concentrate	Under normal conditions of storage and use, hazardous reactions will not occur.
	RNA Pico Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
	RNA Pico Ladder	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: RNA Pico Conditioning Solution	No specific data.
	RNA Pico Gel Matrix	No specific data.
	RNA Pico Dye Concentrate	No specific data.
	RNA Pico Marker	No specific data.
	RNA Pico Ladder	No specific data.
10.5 Incompatible materials	: RNA Pico Conditioning Solution	May react or be incompatible with oxidising materials.
	RNA Pico Gel Matrix	May react or be incompatible with oxidising materials.
	RNA Pico Dye Concentrate	May react or be incompatible with oxidising materials.
	RNA Pico Marker	May react or be incompatible with oxidising materials.
	RNA Pico Ladder	May react or be incompatible with oxidising materials.

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SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: RNA Pico Conditioning Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Pico Gel Matrix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Pico Dye Concentrate	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Pico Marker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	RNA Pico Ladder	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
RNA Pico Dye Concentrate Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-

Acute toxicity estimates

Route	ATE value
RNA Pico Dye Concentrate Oral	94095.9 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
RNA Pico Dye Concentrate Polyoxyethylene octyl phenyl ether	Eyes - Moderate irritant	Rabbit	-	24 hours 10 microliters	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 microliters	-

Sensitiser

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

: RNA Pico Conditioning Solution	Not available.
RNA Pico Gel Matrix	Not available.
RNA Pico Dye Concentrate	Routes of entry anticipated: Oral, Dermal, Inhalation.
RNA Pico Marker	Not available.
RNA Pico Ladder	Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Inhalation	: RNA Pico Conditioning Solution	No known significant effects or critical hazards.
	RNA Pico Gel Matrix	No known significant effects or critical hazards.
	RNA Pico Dye Concentrate	No known significant effects or critical hazards.
	RNA Pico Marker	No known significant effects or critical hazards.
	RNA Pico Ladder	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Ingestion	:	RNA Pico Conditioning Solution	No known significant effects or critical hazards.
		RNA Pico Gel Matrix	No known significant effects or critical hazards.
		RNA Pico Dye Concentrate	No known significant effects or critical hazards.
		RNA Pico Marker	No known significant effects or critical hazards.
		RNA Pico Ladder	No known significant effects or critical hazards.
Skin contact	:	RNA Pico Conditioning Solution	No known significant effects or critical hazards.
		RNA Pico Gel Matrix	No known significant effects or critical hazards.
		RNA Pico Dye Concentrate	No known significant effects or critical hazards.
		RNA Pico Marker	No known significant effects or critical hazards.
		RNA Pico Ladder	No known significant effects or critical hazards.
Eye contact	:	RNA Pico Conditioning Solution	No known significant effects or critical hazards.
		RNA Pico Gel Matrix	No known significant effects or critical hazards.
		RNA Pico Dye Concentrate	Causes serious eye irritation.
		RNA Pico Marker	No known significant effects or critical hazards.
		RNA Pico Ladder	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	RNA Pico Conditioning Solution	No specific data.
		RNA Pico Gel Matrix	No specific data.
		RNA Pico Dye Concentrate	No specific data.
		RNA Pico Marker	No specific data.
		RNA Pico Ladder	No specific data.
Ingestion	:	RNA Pico Conditioning Solution	No specific data.
		RNA Pico Gel Matrix	No specific data.
		RNA Pico Dye Concentrate	No specific data.
		RNA Pico Marker	No specific data.
		RNA Pico Ladder	No specific data.
Skin contact	:	RNA Pico Conditioning Solution	No specific data.
		RNA Pico Gel Matrix	No specific data.
		RNA Pico Dye Concentrate	No specific data.
		RNA Pico Marker	No specific data.
		RNA Pico Ladder	No specific data.
Eye contact	:	RNA Pico Conditioning Solution	No specific data.
		RNA Pico Gel Matrix	No specific data.
		RNA Pico Dye Concentrate	Adverse symptoms may include the following: pain or irritation watering redness
		RNA Pico Marker	No specific data.
		RNA Pico Ladder	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.

SECTION 11: Toxicological information

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
RNA Pico Dye Concentrate Polyoxyethylene octyl phenyl ether	Acute LC50 5.85 mg/l Fresh water	Crustaceans - Ceriodaphnia rigaudi - Neonate	48 hours
	Acute LC50 11.2 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 4500 µg/l Fresh water	Fish - Pimephales promelas	96 hours

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
RNA Pico Dye Concentrate Polyoxyethylene octyl phenyl ether	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
RNA Pico Dye Concentrate Polyoxyethylene octyl phenyl ether	4.86	-	high

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

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.

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SECTION 13: Disposal considerations

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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
RNA Pico Dye Concentrate Polyoxyethylene octyl phenyl ether	Substance of equivalent concern for environment	Recommended	ED/169/2012	2/10/2014

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : RNA Pico Conditioning Solution Not applicable.
RNA Pico Gel Matrix Not applicable.
RNA Pico Dye Concentrate Not applicable.
RNA Pico Marker Not applicable.
RNA Pico Ladder Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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SECTION 15: Regulatory information

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.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
RNA Pico Dye Concentrate Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

RNA Pico Dye Concentrate H302 H315 H318 H319 H411	Harmful if swallowed. Causes skin irritation. Causes serious eye damage. Causes serious eye irritation. Toxic to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

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SECTION 16: Other information

RNA Pico Dye Concentrate

Acute Tox. 4, H302

Aquatic Chronic 2, H411

Eye Dam. 1, H318

Eye Irrit. 2, H319

Skin Irrit. 2, H315

ACUTE TOXICITY (oral) - Category 4

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SKIN CORROSION/IRRITATION - Category 2

Date of issue/ Date of revision : 05/09/2017

Date of previous issue : No previous validation.

Version : 1

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