

SAFETY DATA SHEET



Agilent RNA 6000 Pico Kit, Part Number 5067-1513

Section 1. Identification

1.1 Product identifier

Product name : Agilent RNA 6000 Pico Kit, Part Number 5067-1513

Part no. (chemical kit) : 5067-1513

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.

Validation date : 12/21/2022

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

Identified uses : For research use only.

<input checked="" type="checkbox"/> 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

Uses advised against : Not for use in diagnostic procedures.

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status :	<input checked="" type="checkbox"/> RNA Pico Conditioning Solution	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	RNA Pico Gel Matrix	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	RNA Pico Dye Concentrate	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
	RNA Pico Marker	While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product.

Section 2. Hazards identification

This SDS should be retained and available for employees and other users of this product.

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

RNA Pico Ladder

Classification of the substance or mixture

RNA Pico Dye Concentrate

H227 FLAMMABLE LIQUIDS - Category 4
H319 EYE IRRITATION - Category 2A
H412 AQUATIC HAZARD (LONG-TERM) - Category 3

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%

2.2 GHS 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 No signal word.
RNA Pico Ladder 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 H227 - Combustible liquid.
H319 - Causes serious eye irritation.
H412 - Harmful to aquatic life with long lasting effects.

RNA Pico Marker No known significant effects or critical hazards.
RNA Pico Ladder No known significant effects or critical hazards.

Precautionary statements

Prevention

: RNA Pico Conditioning Solution Not applicable.
RNA Pico Gel Matrix Not applicable.
RNA Pico Dye Concentrate P280 - Wear eye or face protection.
P210 - Keep away from flames and hot surfaces.
No smoking.
P273 - Avoid release to the environment.

RNA Pico Marker Not applicable.
RNA Pico Ladder Not applicable.

Response

: RNA Pico Conditioning Solution Not applicable.
RNA Pico Gel Matrix Not applicable.
RNA Pico Dye Concentrate 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.

RNA Pico Marker Not applicable.

Section 2. Hazards identification

Storage	RNA Pico Ladder	Not applicable.	
	: RNA Pico Conditioning Solution	Not applicable.	
	RNA Pico Gel Matrix	Not applicable.	
Disposal	RNA Pico Dye Concentrate	P403 + P235 - Store in a well-ventilated place. Keep cool.	
	RNA Pico Marker	Not applicable.	
	RNA Pico Ladder	Not applicable.	
	: RNA Pico Conditioning Solution	Not applicable.	
	RNA Pico Gel Matrix	Not applicable.	
	RNA Pico Dye Concentrate	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.	
Supplemental label elements	RNA Pico Marker	Not applicable.	
	RNA Pico Ladder	Not applicable.	
	: RNA Pico Conditioning Solution	None known.	
	RNA Pico Gel Matrix	None known.	
	RNA Pico Dye Concentrate	None known.	
	RNA Pico Marker	None known.	
2.3 Other hazards	RNA Pico Ladder	None known.	
	Hazards not otherwise classified	: 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.		

Section 3. Composition/information on ingredients

Substance/mixture	: RNA Pico Conditioning Solution	Mixture
	RNA Pico Gel Matrix	Mixture
	RNA Pico Dye Concentrate	Mixture
	RNA Pico Marker	Mixture
	RNA Pico Ladder	Mixture

Ingredient name	%	CAS number
RNA Pico Dye Concentrate		
Dimethyl sulfoxide	≥90	67-68-5
Polyoxyethylene octyl phenyl ether	<2.5	9002-93-1

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: 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.

Section 4. First aid measures

	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 Concentrate	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.
	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.

Section 4. First aid measures

Ingestion	: RNA Pico Conditioning Solution	Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	RNA Pico Gel Matrix	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.
	RNA Pico Dye Concentrate	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.
	RNA Pico Marker	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.
	RNA Pico Ladder	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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 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. Causes serious eye irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: 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.
Skin contact	: 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 4. First aid measures

Ingestion	: 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.
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Over-exposure signs/symptoms

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

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

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

Section 4. First aid measures

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.

See toxicological information (Section 11)

Section 5. Fire-fighting 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 dry chemical, CO ₂ , water spray (fog) or foam.
	RNA Pico Marker	Use an extinguishing agent suitable for the surrounding fire.
	RNA Pico Ladder	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: RNA Pico Conditioning Solution	None known.
	RNA Pico Gel Matrix	None known.
	RNA Pico Dye Concentrate	Do not use water jet.
	RNA Pico Marker	None known.
	RNA Pico Ladder	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: 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	Combustible liquid. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
	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.

Section 5. Fire-fighting measures

Hazardous thermal decomposition 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 RNA Pico Ladder	No specific data. No specific data.

5.3 Advice for firefighters

Special protective actions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
	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.
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.
	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.
	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.
	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.

Section 5. Fire-fighting measures

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.

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 spilled 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 spilled 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor 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 spilled 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 spilled material. Put on appropriate personal protective equipment.

For emergency responders

: RNA Pico Conditioning Solution

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

RNA Pico Gel Matrix

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

RNA Pico Dye Concentrate

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

RNA Pico Marker

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

RNA Pico Ladder

If specialized clothing is required to deal with the spillage, take note of any information in Section 8

Section 6. Accidental release measures

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 spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
RNA Pico Gel Matrix	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
RNA Pico Dye Concentrate	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
RNA Pico Marker	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
RNA Pico Ladder	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up

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. Use spark-proof tools and explosion-proof equipment. 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, 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 Ladder	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble.

Section 6. Accidental release measures

Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: 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 vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. 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.

Section 7. Handling and storage

	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.
<p>7.2 Conditions for safe storage, including any incompatibilities</p>	: RNA Pico Conditioning 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RNA Pico Gel Matrix	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RNA Pico Dye Concentrate	Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RNA Pico Marker	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RNA Pico Ladder	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

Section 7. Handling and storage

until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

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

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
RNA Pico Dye Concentrate Dimethyl sulfoxide	OARS WEEL (United States, 1/2021). TWA: 250 ppm 8 hours. None.
Polyoxyethylene octyl phenyl ether	

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls	: Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin protection

Section 8. Exposure controls/personal protection

- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties and safety characteristics

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

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.
Color	: 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.
Odor	: 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.
Odor 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.
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 (32°F)
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	18.5°C (65.3°F)
	RNA Pico Marker	0°C (32°F)
	RNA Pico Ladder	0°C (32°F)
Boiling point, initial boiling point, and boiling range	: RNA Pico Conditioning Solution	100°C (212°F)
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	189°C (372.2°F)
	RNA Pico Marker	100°C (212°F)
	RNA Pico Ladder	100°C (212°F)

Section 9. Physical and chemical properties and safety characteristics

Flash point	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not available. Not available. Closed cup: 61 to 93.3°C (141.8 to 199.9°F) Not available. Not available.
Evaporation rate	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not available. Not available. 0.026 (butyl acetate = 1) Not available. Not available.
Flammability	: 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.
Lower and upper explosion limit/flammability limit	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not available. Not available. Not available. Not available. Not available.
Vapor pressure	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not available. Not available. 0.056 kPa (0.42 mm Hg) Not available. Not available.

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
RNA Pico Conditioning Solution						
water	23.8	3.2		92.258	12.3	
RNA Pico Gel Matrix						
water	23.8	3.2		92.258	12.3	
RNA Pico Marker						
water	23.8	3.2		92.258	12.3	
RNA Pico Ladder						
water	23.8	3.2		92.258	12.3	

Relative vapor density	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not available. Not available. 2.7 [Air = 1] Not available. Not available.
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Section 9. Physical and chemical properties and safety characteristics

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)	: Media	Result
	RNA Pico Conditioning Solution water	Soluble
	RNA Pico Gel Matrix water	Soluble
	RNA Pico Dye Concentrate water	Soluble
	RNA Pico Marker water	Soluble
	RNA Pico Ladder water	Soluble

Partition coefficient: n-octanol/water	: 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.

Auto-ignition temperature	: Ingredient name	°C	°F	Method
	RNA Pico Dye Concentrate Dimethyl sulfoxide	300 to 302	572 to 575.6	

Decomposition temperature	: RNA Pico Conditioning Solution	Not available.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	140 to 189°C (284 to 372.2°F)
	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.

Particle characteristics

Median particle size	: 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 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.

Section 10. Stability and reactivity

10.2 Chemical stability	<ul style="list-style-type: none"> : RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder 	<p>The product is stable.</p> <p>The product is stable.</p> <p>The product is stable.</p> <p>The product is stable.</p> <p>The product is stable.</p>
10.3 Possibility of hazardous reactions	<ul style="list-style-type: none"> : RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder 	<p>Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Under normal conditions of storage and use, hazardous reactions will not occur.</p> <p>Under normal conditions of storage and use, hazardous reactions will not occur.</p>
10.4 Conditions to avoid	<ul style="list-style-type: none"> : RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder 	<p>No specific data.</p> <p>No specific data.</p> <p>Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.</p> <p>No specific data.</p> <p>No specific data.</p>
10.5 Incompatible materials	<ul style="list-style-type: none"> : RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder 	<p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p> <p>Reactive or incompatible with the following materials: oxidizing materials</p> <p>May react or be incompatible with oxidizing materials.</p> <p>May react or be incompatible with oxidizing materials.</p>
10.6 Hazardous decomposition products	<ul style="list-style-type: none"> : RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder 	<p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p> <p>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</p>

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
RNA Pico Dye Concentrate				
Dimethyl sulfoxide	LD50 Dermal	Rat	40000 mg/kg	-
	LD50 Oral	Rat	14500 mg/kg	-
Polyoxyethylene octyl phenyl ether	LD50 Oral	Rat	1800 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
RNA Pico Dye Concentrate					
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
Polyoxyethylene octyl phenyl ether	Skin - Mild irritant	Rabbit	-	24 hours 500 uL	-

Sensitization

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: RNA Pico Conditioning Solution	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.
	RNA Pico Gel Matrix	Not available.
	RNA Pico Dye Concentrate	Not available.
	RNA Pico Marker	Not available.
	RNA Pico Ladder	Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

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.

Section 11. Toxicological information

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.

Symptoms related to the physical, chemical and toxicological characteristics

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.
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.

Delayed and immediate effects and also 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 effects

Section 11. Toxicological information

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.
Reproductive toxicity	: 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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
RNA Pico Dye Concentrate					
RNA Pico Dye Concentrate	94095.9	N/A	N/A	N/A	N/A
Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A
Polyoxyethylene octyl phenyl ether	1800	N/A	N/A	N/A	N/A

Other information	: RNA Pico Conditioning Solution RNA Pico Gel Matrix RNA Pico Dye Concentrate RNA Pico Marker RNA Pico Ladder	Not available. Not available. Not available. Not available. Not available.
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Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
RNA Pico Dye Concentrate Dimethyl sulfoxide	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 100 ul/L Marine water	Algae - Ulva lactuca	72 hours
	Chronic NOEC 100 ul/L Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	21 days
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

Section 12. Ecological information

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
RNA Pico Dye Concentrate Dimethyl sulfoxide	OECD 301D Ready Biodegradability - Closed Bottle Test	31 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
RNA Pico Dye Concentrate Dimethyl sulfoxide	-	-	Not readily
Polyoxyethylene octyl phenyl ether	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
RNA Pico Dye Concentrate Dimethyl sulfoxide	-1.35	3.16	low
Polyoxyethylene octyl phenyl ether	4.86	-	high

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

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

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

Transport in bulk according to IMO instruments : Not available.

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) PAIR:** Polyoxyethylene octyl phenyl ether
TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification	:	<input checked="" type="checkbox"/> RNA Pico Conditioning Solution <input checked="" type="checkbox"/> RNA Pico Gel Matrix <input checked="" type="checkbox"/> RNA Pico Dye Concentrate <input type="checkbox"/> RNA Pico Marker <input type="checkbox"/> RNA Pico Ladder	Not applicable. Not applicable. FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A Not applicable. Not applicable.
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Composition/information on ingredients

Name	%	Classification
<input checked="" type="checkbox"/> RNA Pico Dye Concentrate		
Dimethyl sulfoxide	≥90	FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2B
Polyoxyethylene octyl phenyl ether	<2.5	ACUTE TOXICITY (oral) - Category 4 SKIN IRRITATION - Category 2 SERIOUS EYE DAMAGE - Category 1

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : The following components are listed: DIMETHYL SULFOXIDE; ETHYL ALCOHOL

Pennsylvania : None of the components are listed.

Section 15. Regulatory information

California Prop. 65

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

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Eurasian Economic Union	: Russian Federation inventory : Not determined.
Japan	: Japan inventory (CSCL) : Not determined. Japan inventory (ISHL) : 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.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
RNA Pico Dye Concentrate FLAMMABLE LIQUIDS - Category 4 EYE IRRITATION - Category 2A AQUATIC HAZARD (LONG-TERM) - Category 3	On basis of test data Calculation method Calculation method

History

Date of issue	: 12/21/2022
Date of previous issue	: 12/04/2020
Version	: 10

Section 16. Other information

Key to abbreviations

- : ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- IATA = International Air Transport Association
- IBC = Intermediate Bulk Container
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- N/A = Not available
- UN = United Nations

✔ Indicates information that has changed from previously issued version.

Notice to reader

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