

# SAFETY DATA SHEET



Agilent RNA 6000 Nano Kit, Part Number 5067-1511

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

### 1.1 Product identifier

<b>Product name</b>	: Agilent RNA 6000 Nano Kit, Part Number 5067-1511	
<b>Part no. (chemical kit)</b>	: 5067-1511	
<b>Part no.</b>	<u>Reagents RNA Nano</u>	<u>G2938-80023</u>
	RNA 6000 Nano Gel Matrix	Not available.
	RNA Nano Dye Concentrate	Not available.
	RNA 6000 Nano Marker	Not available.
	RNA 6000 Nano ladder	<u>G2938-80038</u>
	RNA 6000 Nano Ladder	Not available.

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

<b>Material uses</b>	: Analytical chemistry. Research and Development	
	RNA 6000 Nano Gel Matrix	2 x 1.2 ml
	RNA Nano Dye Concentrate	1 x 0.035 ml
	RNA 6000 Nano Marker	2 x 1.2 ml
	RNA 6000 Nano Ladder	1 x 0.035 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

<b>Product definition</b>	: RNA 6000 Nano Gel Matrix	Mixture
	RNA Nano Dye Concentrate	Mixture
	RNA 6000 Nano Marker	Mixture
	RNA 6000 Nano Ladder	Mixture

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

Not classified.

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

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 2: Hazards identification

<b>Signal word</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	No signal word. No signal word. No signal word. No signal word.
<b>Hazard statements</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano 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.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Response</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Storage</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	Not applicable. Not applicable. Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder	Not applicable. Not applicable. Not applicable. Not applicable.

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 2: Hazards identification

### 2.3 Other hazards

<b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b>	: RNA 6000 Nano Gel Matrix	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: RNA Nano Dye Concentrate	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: RNA 6000 Nano Marker	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: RNA 6000 Nano Ladder	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	: RNA 6000 Nano Gel Matrix	None known.
<b>Other hazards which do not result in classification</b>	: RNA Nano Dye Concentrate	None known.
	: RNA 6000 Nano Marker	None known.
	: RNA 6000 Nano Ladder	None known.

## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: RNA 6000 Nano Gel Matrix	Mixture
	: RNA Nano Dye Concentrate	Mixture
	: RNA 6000 Nano Marker	Mixture
	: RNA 6000 Nano Ladder	Mixture

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

<b>Eye contact</b>	: RNA 6000 Nano 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 Nano Dye Concentrate	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 6000 Nano 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 6000 Nano 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.
<b>Inhalation</b>	: RNA 6000 Nano Gel Matrix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	: RNA Nano Dye Concentrate	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	: RNA 6000 Nano Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	: RNA 6000 Nano Ladder	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
<b>Skin contact</b>	: RNA 6000 Nano Gel Matrix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	: RNA Nano Dye Concentrate	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	: RNA 6000 Nano Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

## SECTION 4: First aid measures

	RNA 6000 Nano Ladder	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: RNA 6000 Nano 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 Nano 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 6000 Nano Marker	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 6000 Nano 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.
<b>Protection of first-aiders</b>	: RNA 6000 Nano Gel Matrix	No action shall be taken involving any personal risk or without suitable training.
	RNA Nano Dye Concentrate	No action shall be taken involving any personal risk or without suitable training.
	RNA 6000 Nano Marker	No action shall be taken involving any personal risk or without suitable training.
	RNA 6000 Nano 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

<b>Eye contact</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Inhalation</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Skin contact</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Ingestion</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 4: First aid measures

<b>Eye contact</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	RNA Nano Dye Concentrate	No specific data.
	RNA 6000 Nano Marker	No specific data.
	RNA 6000 Nano Ladder	No specific data.
<b>Inhalation</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	RNA Nano Dye Concentrate	No specific data.
	RNA 6000 Nano Marker	No specific data.
	RNA 6000 Nano Ladder	No specific data.
<b>Skin contact</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	RNA Nano Dye Concentrate	No specific data.
	RNA 6000 Nano Marker	No specific data.
	RNA 6000 Nano Ladder	No specific data.
<b>Ingestion</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	RNA Nano Dye Concentrate	No specific data.
	RNA 6000 Nano Marker	No specific data.
	RNA 6000 Nano Ladder	No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: RNA 6000 Nano Gel Matrix	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA Nano Dye Concentrate	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA 6000 Nano Marker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	RNA 6000 Nano Ladder	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
<b>Specific treatments</b>	: RNA 6000 Nano Gel Matrix	No specific treatment.
	RNA Nano Dye Concentrate	No specific treatment.
	RNA 6000 Nano Marker	No specific treatment.
	RNA 6000 Nano Ladder	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: RNA 6000 Nano Gel Matrix	Use an extinguishing agent suitable for the surrounding fire.
	RNA Nano Dye Concentrate	Use an extinguishing agent suitable for the surrounding fire.
	RNA 6000 Nano Marker	Use an extinguishing agent suitable for the surrounding fire.
	RNA 6000 Nano Ladder	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: RNA 6000 Nano Gel Matrix	None known.
	RNA Nano Dye Concentrate	None known.
	RNA 6000 Nano Marker	None known.
	RNA 6000 Nano Ladder	None known.

### 5.2 Special hazards arising from the substance or mixture

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 5: Firefighting measures

<b>Hazards from the substance or mixture</b>	: RNA 6000 Nano Gel Matrix	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA Nano Dye Concentrate	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA 6000 Nano Marker	In a fire or if heated, a pressure increase will occur and the container may burst.
	RNA 6000 Nano Ladder	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	RNA Nano Dye Concentrate	Decomposition products may include the following materials:  carbon dioxide carbon monoxide sulfur oxides
	RNA 6000 Nano Marker	No specific data.
	RNA 6000 Nano Ladder	No specific data.

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	: RNA 6000 Nano 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 Nano 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 6000 Nano 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 6000 Nano 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.
<b>Special protective equipment for fire-fighters</b>	: RNA 6000 Nano 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 Nano 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 6000 Nano 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 6000 Nano 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

<b>For non-emergency personnel</b>	: RNA 6000 Nano 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 Nano 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. Put on appropriate personal protective equipment.
	RNA 6000 Nano 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 6000 Nano 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.
<b>For emergency responders</b>	: RNA 6000 Nano 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 Nano 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 6000 Nano 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 6000 Nano 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".
<b>6.2 Environmental precautions</b>	: RNA 6000 Nano 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 Nano 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 6000 Nano 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 6000 Nano 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

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 6: Accidental release measures

<b>Methods for cleaning up</b>	: RNA 6000 Nano 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 Nano 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 6000 Nano 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 6000 Nano Ladder	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

<b>Protective measures</b>	: RNA 6000 Nano Gel Matrix	Put on appropriate personal protective equipment (see Section 8).
	RNA Nano Dye Concentrate	Put on appropriate personal protective equipment (see Section 8).
	RNA 6000 Nano Marker	Put on appropriate personal protective equipment (see Section 8).
	RNA 6000 Nano Ladder	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: RNA 6000 Nano 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 Nano 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 6000 Nano 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 6000 Nano 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.

### 7.2 Conditions for safe storage, including any incompatibilities



Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 7: Handling and storage

<b>Storage</b>	: RNA 6000 Nano 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RNA Nano Dye Concentrate	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 6000 Nano 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	RNA 6000 Nano 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 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)

<b>Recommendations</b>	: RNA 6000 Nano Gel Matrix	Industrial applications, Professional applications.
	RNA Nano Dye Concentrate	Industrial applications, Professional applications.
	RNA 6000 Nano Marker	Industrial applications, Professional applications.
	RNA 6000 Nano Ladder	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: RNA 6000 Nano Gel Matrix	Not available.
	RNA Nano Dye Concentrate	Not available.
	RNA 6000 Nano Marker	Not available.
	RNA 6000 Nano Ladder	Not available.

## 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: safety glasses with side-shields.

#### Skin protection

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: RNA 6000 Nano Gel Matrix	Liquid.
	: RNA Nano Dye Concentrate	Liquid.
	: RNA 6000 Nano Marker	Liquid.
	: RNA 6000 Nano Ladder	Liquid.
	: RNA 6000 Nano Gel Matrix	Not available.
<b>Colour</b>	: RNA Nano Dye Concentrate	Blue.
	: RNA 6000 Nano Marker	Not available.
	: RNA 6000 Nano Ladder	Not available.
	: RNA 6000 Nano Gel Matrix	Not available.
	: RNA Nano Dye Concentrate	Not available.
<b>Odour</b>	: RNA 6000 Nano Marker	Not available.
	: RNA 6000 Nano Ladder	Not available.
	: RNA 6000 Nano Gel Matrix	Not available.
	: RNA Nano Dye Concentrate	Not available.
	: RNA 6000 Nano Marker	Not available.
<b>Odour threshold</b>	: RNA 6000 Nano Ladder	Not available.
	: RNA 6000 Nano Gel Matrix	Not available.
	: RNA Nano Dye Concentrate	Not available.
	: RNA 6000 Nano Marker	Not available.
	: RNA 6000 Nano Ladder	Not available.
<b>Melting point/freezing point</b>	: RNA 6000 Nano Gel Matrix	0°C
	: RNA Nano Dye Concentrate	18.4°C
	: RNA 6000 Nano Marker	0°C
	: RNA 6000 Nano Ladder	0°C
	: RNA 6000 Nano Gel Matrix	100°C (212°F)
<b>Initial boiling point and boiling range</b>	: RNA Nano Dye Concentrate	189°C (372.2°F)
	: RNA 6000 Nano Marker	100°C (212°F)
	: RNA 6000 Nano Ladder	100°C (212°F)
	: RNA 6000 Nano Gel Matrix	Not applicable.
	: RNA Nano Dye Concentrate	Not applicable.
<b>Flammability (solid, gas)</b>	: RNA 6000 Nano Marker	Not applicable.
	: RNA 6000 Nano Ladder	Not applicable.
	: RNA 6000 Nano Gel Matrix	Not available.
	: RNA Nano Dye Concentrate	Not available.
	: RNA 6000 Nano Marker	Not available.
<b>Upper/lower flammability or explosive limits</b>	: RNA 6000 Nano Ladder	Not available.
	: RNA 6000 Nano Gel Matrix	Not available.
	: RNA Nano Dye Concentrate	Not available.
	: RNA 6000 Nano Marker	Not available.
	: RNA 6000 Nano Ladder	Not available.
<b>Flash point</b>	: RNA 6000 Nano Gel Matrix	Not available.
	: RNA Nano Dye Concentrate	Closed cup: 94°C (201.2°F)
	: RNA 6000 Nano Marker	Not available.
	: RNA 6000 Nano Ladder	Not available.
	: RNA 6000 Nano Gel Matrix	Not available.

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

**SECTION 9: Physical and chemical properties**

Ingredient name	Closed cup			Open cup		
	°C	°F	Method	°C	°F	Method
<b>RNA 6000 Nano Gel Matrix</b> Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	>100	>212				
<b>RNA 6000 Nano Ladder</b> Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate	>100	>212				

**Auto-ignition temperature**

Ingredient name	°C	°F	Method
<b>RNA Nano Dye Concentrate</b> Dimethyl sulfoxide	300 to 302	572 to 575.6	

**Decomposition temperature**

RNA 6000 Nano Gel Matrix	Not available.
RNA Nano Dye Concentrate	Not available.
RNA 6000 Nano Marker	Not available.
RNA 6000 Nano Ladder	Not available.

**pH**

RNA 6000 Nano Gel Matrix	Not available.
RNA Nano Dye Concentrate	Not available.
RNA 6000 Nano Marker	Not available.
RNA 6000 Nano Ladder	Not available.

**Viscosity**

RNA 6000 Nano Gel Matrix	Not available.
RNA Nano Dye Concentrate	Not available.
RNA 6000 Nano Marker	Not available.
RNA 6000 Nano Ladder	Not available.

**Solubility(ies)**

RNA 6000 Nano Gel Matrix	Easily soluble in the following materials: cold water and hot water.
RNA Nano Dye Concentrate	Soluble in the following materials: cold water and hot water.
RNA 6000 Nano Marker	Easily soluble in the following materials: cold water and hot water.
RNA 6000 Nano Ladder	Easily soluble in the following materials: cold water and hot water.

**Partition coefficient: n-octanol/water**

RNA 6000 Nano Gel Matrix	Not applicable.
RNA Nano Dye Concentrate	Not applicable.
RNA 6000 Nano Marker	Not applicable.
RNA 6000 Nano Ladder	Not applicable.

**Vapour pressure**

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 9: Physical and chemical properties

<b>RNA 6000 Nano Gel Matrix</b>					
Water	23.8	3.2		92.258	12.3
<b>RNA Nano Dye Concentrate</b>					
Dimethyl sulfoxide	0.42	0.056	EU A.4		
<b>RNA 6000 Nano Marker</b>					
Water	23.8	3.2		92.258	12.3
<b>RNA 6000 Nano Ladder</b>					
Water	23.8	3.2		92.258	12.3

**Evaporation rate** : RNA 6000 Nano Gel Matrix Not available.  
 RNA Nano Dye Concentrate Not available.  
 RNA 6000 Nano Marker Not available.  
 RNA 6000 Nano Ladder Not available.

**Relative density** : RNA 6000 Nano Gel Matrix Not available.  
 RNA Nano Dye Concentrate Not available.  
 RNA 6000 Nano Marker Not available.  
 RNA 6000 Nano Ladder Not available.

**Vapour density** : RNA 6000 Nano Gel Matrix Not available.  
 RNA Nano Dye Concentrate Not available.  
 RNA 6000 Nano Marker Not available.  
 RNA 6000 Nano Ladder Not available.

**Oxidising properties** : RNA 6000 Nano Gel Matrix Not available.  
 RNA Nano Dye Concentrate Not available.  
 RNA 6000 Nano Marker Not available.  
 RNA 6000 Nano Ladder Not available.

### Particle characteristics

**Median particle size** : RNA 6000 Nano Gel Matrix Not applicable.  
 RNA Nano Dye Concentrate Not applicable.  
 RNA 6000 Nano Marker Not applicable.  
 RNA 6000 Nano Ladder Not applicable.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

**10.1 Reactivity** : RNA 6000 Nano Gel Matrix No specific test data related to reactivity available for this product or its ingredients.  
 RNA Nano Dye Concentrate No specific test data related to reactivity available for this product or its ingredients.  
 RNA 6000 Nano Marker No specific test data related to reactivity available for this product or its ingredients.  
 RNA 6000 Nano Ladder No specific test data related to reactivity available for this product or its ingredients.

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 10: Stability and reactivity

<b>10.2 Chemical stability</b>	: RNA 6000 Nano Gel Matrix	The product is stable.
	: RNA Nano Dye Concentrate	The product is stable.
	: RNA 6000 Nano Marker	The product is stable.
	: RNA 6000 Nano Ladder	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: RNA 6000 Nano Gel Matrix	Under normal conditions of storage and use, hazardous reactions will not occur.
	: RNA Nano Dye Concentrate	Under normal conditions of storage and use, hazardous reactions will not occur.
	: RNA 6000 Nano Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
	: RNA 6000 Nano Ladder	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	: RNA Nano Dye Concentrate	No specific data.
	: RNA 6000 Nano Marker	No specific data.
	: RNA 6000 Nano Ladder	No specific data.
<b>10.5 Incompatible materials</b>	: RNA 6000 Nano Gel Matrix	May react or be incompatible with oxidising materials.
	: RNA Nano Dye Concentrate	May react or be incompatible with oxidising materials.
	: RNA 6000 Nano Marker	May react or be incompatible with oxidising materials.
	: RNA 6000 Nano Ladder	May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: RNA 6000 Nano Gel Matrix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: RNA Nano Dye Concentrate	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: RNA 6000 Nano Marker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	: RNA 6000 Nano 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

Not available.

#### Acute toxicity estimates

N/A

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 11: Toxicological information

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

RNA 6000 Nano Gel Matrix	Not available.
RNA Nano Dye Concentrate	Routes of entry anticipated: Oral, Dermal, Inhalation.
RNA 6000 Nano Marker	Not available.
RNA 6000 Nano Ladder	Not available.

### Potential acute health effects

<b>Inhalation</b>	RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Ingestion</b>	RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Skin contact</b>	RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Eye contact</b>	RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	RNA 6000 Nano Marker	No known significant effects or critical hazards.
	RNA 6000 Nano Ladder	No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

<b>Inhalation</b>	RNA 6000 Nano Gel Matrix	No specific data.
	RNA Nano Dye Concentrate	No specific data.
	RNA 6000 Nano Marker	No specific data.
	RNA 6000 Nano Ladder	No specific data.
<b>Ingestion</b>	RNA 6000 Nano Gel Matrix	No specific data.
	RNA Nano Dye Concentrate	No specific data.
	RNA 6000 Nano Marker	No specific data.
	RNA 6000 Nano Ladder	No specific data.

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 11: Toxicological information

<b>Skin contact</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	: RNA Nano Dye Concentrate	No specific data.
	: RNA 6000 Nano Marker	No specific data.
	: RNA 6000 Nano Ladder	No specific data.
<b>Eye contact</b>	: RNA 6000 Nano Gel Matrix	No specific data.
	: RNA Nano Dye Concentrate	No specific data.
	: RNA 6000 Nano Marker	No specific data.
	: RNA 6000 Nano 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.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	: RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	: RNA 6000 Nano Marker	No known significant effects or critical hazards.
	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	: RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	: RNA 6000 Nano Marker	No known significant effects or critical hazards.
	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Mutagenicity</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	: RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	: RNA 6000 Nano Marker	No known significant effects or critical hazards.
	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Reproductive toxicity</b>	: RNA 6000 Nano Gel Matrix	No known significant effects or critical hazards.
	: RNA Nano Dye Concentrate	No known significant effects or critical hazards.
	: RNA 6000 Nano Marker	No known significant effects or critical hazards.
	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.
<b>Other information</b>	: RNA 6000 Nano Gel Matrix	Not available.
	: RNA Nano Dye Concentrate	Not available.
	: RNA 6000 Nano Marker	Not available.
	: RNA 6000 Nano Ladder	Not available.



Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

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

**12.6 Other adverse effects** : No known significant effects or critical 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** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 14: Transport information

14.5 Environmental hazards	No.	No.	No.

### Additional information

**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 IMO instruments** : 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

None of the components are listed.

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

<b>Label</b>	: RNA 6000 Nano Gel Matrix	Not applicable.
	RNA Nano Dye Concentrate	Not applicable.
	RNA 6000 Nano Marker	Not applicable.
	RNA 6000 Nano 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.

##### Persistent Organic Pollutants

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

Not listed.

##### Stockholm Convention on Persistent Organic Pollutants

Not listed.

##### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

Agilent RNA 6000 Nano Kit, Part Number 5067-1511

## SECTION 15: Regulatory information

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

<b>Australia</b>	: All components are listed or exempted.
<b>Canada</b>	: All components are listed or exempted.
<b>China</b>	: Not determined.
<b>Europe</b>	: Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : All components are listed or exempted. <b>Japan inventory (ISHL)</b> : All components are listed or exempted.
<b>New Zealand</b>	: All components are listed or exempted.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: All components are listed or exempted.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: 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]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

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

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

Not applicable.

### Full text of classifications [CLP/GHS]

Not applicable.

**Date of issue/ Date of revision** : 03/02/2022

**Date of previous issue** : No previous validation

**Version** : 1

### Notice to reader

**Disclaimer:** The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.