SAFETY DATA SHEET



Agilent RNA 6000 Nano Reagents, Part Number 5067-1512

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

1.1 Product identifier

Product name : Agilent RNA 6000 Nano Reagents, Part Number 5067-1512

Part no. (chemical kit) : 5067-1512

Part no. : Reagents RNA Nano G2938-80023

RNA 6000 Nano Gel Not available.

Matrix

RNA Nano Dye Not available.

Concentrate

RNA 6000 Nano Marker
RNA 6000 Nano ladder
RNA 6000 Nano Ladder
RNA 6000 Nano Ladder
RNA 6000 Nano Ladder
RNA 6000 Nano Marker
G2938-80038
Not available.

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

Identified uses : 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

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germanv

0800 603 1000

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of

: CHEMTREC®: +(44)-870-8200418

operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : RNA 6000 Nano Gel Mixture

Matrix

RNA Nano Dye Mixture

Concentrate

RNA 6000 Nano Marker Mixture RNA 6000 Nano Ladder Mixture

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

Not classified.

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SECTION 2: Hazards identification

1272/2008 as amended.

RNA Nano Dye Concentrate The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

RNA 6000 Nano Marker The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

RNA 6000 Nano Ladder The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

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

Signal word : RNA 6000 Nano Gel No signal word.

Matrix

RNA Nano Dye No signal word.

Concentrate

RNA 6000 Nano Marker No signal word. RNA 6000 Nano Ladder No signal word.

Hazard statements: RNA 6000 Nano Gel No known significant effects or critical hazards.

Matrix

RNA Nano Dye No known significant effects or critical hazards.

Concentrate

RNA 6000 Nano Marker No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards.

Precautionary statements

Prevention : RNA 6000 Nano Gel Not applicable.

Matrix

RNA Nano Dye Not applicable.

Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder Not applicable.

Response : RNA 6000 Nano Gel Not applicable.

Matrix

RNA Nano Dye Not applicable.

Concentrate

RNA 6000 Nano Marker
RNA 6000 Nano Ladder
RNA 6000 Nano Gel
Not applicable.
Not applicable.

Storage : RNA 6000 Nano Gel Not applicable.

Matrix

RNA Nano Dye Not applicable.

Concentrate

RNA 6000 Nano Marker Not applicable. RNA 6000 Nano Ladder Not applicable.

Disposal : RNA 6000 Nano Gel Not applicable.

Matrix

RNA Nano Dye Not applicable.

Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder Not applicable.

RNA 6000 Nano Gel Not applicable.

Supplemental label elements

Matrix

RNA Nano Dye

Concentrate
RNA 6000 Nano Marker Not applicable.
RNA 6000 Nano Ladder Not applicable.

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Not applicable.

Agilent RNA 6000 Nano Reagents, Part Number 5067-1512

SECTION 2: Hazards identification

Annex XVII - Restrictions : RNA 6000 Nano Gel

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable.

Matrix

RNA Nano Dye Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder Not applicable.

Not applicable. Not applicable.

Special packaging requirements

Tactile warning of danger

: RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Not applicable. Not applicable.

Concentrate

RNA 6000 Nano Marker Not applicable. RNA 6000 Nano Ladder Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Concentrate

RNA 6000 Nano Marker

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

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

RNA 6000 Nano Ladder This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification

: RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Concentrate

None known.

None known.

RNA 6000 Nano Marker None known. RNA 6000 Nano Ladder None known.

SECTION 3: Composition/information on ingredients

3.1 Substances 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

Eye contact

: RNA 6000 Nano Gel

RNA Nano Dye

Concentrate

Matrix

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. 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. Immediately flush eyes with plenty of water, occasionally

Immediately flush eyes with plenty of water, occasionally

RNA 6000 Nano Marker

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally

RNA 6000 Nano Ladder

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

Inhalation

: 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

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SECTION 4: First aid measures

comfortable for breathing. Get medical attention if

symptoms occur.

Remove victim to fresh air and keep at rest in a position RNA 6000 Nano Ladder

comfortable for breathing. Get medical attention if

symptoms occur.

: RNA 6000 Nano Gel Flush contaminated skin with plenty of water. Remove **Skin contact**

Matrix

contaminated clothing and shoes. Get medical attention if

symptoms occur.

RNA Nano Dve Flush contaminated skin with plenty of water. Remove Concentrate 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.

RNA 6000 Nano Ladder Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : RNA 6000 Nano Gel Wash out mouth with water. If material has been swallowed

> Matrix 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 Wash out mouth with water. If material has been swallowed Concentrate 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.

Protection of first-aiders : RNA 6000 Nano Gel No action shall be taken involving any personal risk or

Matrix

without suitable training.

RNA Nano Dye

No action shall be taken involving any personal risk or Concentrate without suitable training.

No action shall be taken involving any personal risk or RNA 6000 Nano Marker

without suitable training.

No action shall be taken involving any personal risk or RNA 6000 Nano Ladder

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : RNA 6000 Nano Gel No known significant effects or critical hazards.

Matrix

RNA Nano Dye No known significant effects or critical hazards.

Concentrate

RNA 6000 Nano Marker No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards.

Inhalation : RNA 6000 Nano Gel No known significant effects or critical hazards.

Matrix

RNA Nano Dye No known significant effects or critical hazards.

Concentrate

RNA 6000 Nano Marker No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards.

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SECTION 4: First aid measures

Skin contact RNA 6000 Nano Gel No known significant effects or critical hazards.

Matrix

RNA Nano Dye No known significant effects or critical hazards.

Concentrate

RNA 6000 Nano Marker No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards. : RNA 6000 Nano Gel No known significant effects or critical hazards.

Matrix

RNA Nano Dve No known significant effects or critical hazards.

Concentrate

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

Ingestion

Skin contact

Ingestion

: RNA 6000 Nano Gel **Eye contact** No specific data.

Matrix

RNA Nano Dye No specific data.

Concentrate

RNA 6000 Nano Marker No specific data. RNA 6000 Nano Ladder No specific data.

Inhalation : RNA 6000 Nano Gel No specific data.

Matrix

RNA Nano Dye No specific data.

Concentrate

RNA 6000 Nano Marker No specific data. RNA 6000 Nano Ladder No specific data. : RNA 6000 Nano Gel No specific data.

Matrix

RNA Nano Dye No specific data.

Concentrate

RNA 6000 Nano Marker No specific data. RNA 6000 Nano Ladder No specific data. : RNA 6000 Nano Gel No specific data.

Matrix

RNA Nano Dye No specific data.

Concentrate

RNA 6000 Nano Marker No specific data. No specific data. RNA 6000 Nano Ladder

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : RNA 6000 Nano Gel Treat symptomatically. Contact poison treatment specialist

Matrix

RNA Nano Dye Concentrate

RNA 6000 Nano Marker

RNA 6000 Nano Ladder

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.

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

: RNA 6000 Nano Gel **Specific treatments** No specific treatment. Matrix

RNA Nano Dye

Concentrate

No specific treatment.

RNA 6000 Nano Marker RNA 6000 Nano Ladder

No specific treatment. No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

Unsuitable extinguishing

media

: RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Concentrate

: RNA 6000 Nano Gel

RNA 6000 Nano Marker

RNA 6000 Nano Ladder

Matrix

RNA Nano Dye Concentrate

RNA 6000 Nano Marker

RNA 6000 Nano Ladder

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

None known.

None known

None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

Hazardous combustion

products

: RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Concentrate

RNA 6000 Nano Marker

RNA 6000 Nano Ladder

RNA Nano Dye

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the container may burst.

In a fire or if heated, a pressure increase will occur and the

container may burst. In a fire or if heated, a pressure increase will occur and the

container may burst.

: RNA 6000 Nano Gel

Matrix

Concentrate

No specific data.

Decomposition products may include the following materials:

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. Promptly isolate the scene by removing all persons from the

vicinity of the incident if there is a fire. No action shall be

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the

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.

carbon dioxide carbon monoxide sulfur oxides No specific data.

RNA 6000 Nano Marker RNA 6000 Nano Ladder

No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

: RNA 6000 Nano Gel

Matrix

RNA Nano Dye Concentrate

RNA 6000 Nano Marker

RNA 6000 Nano Ladder

Special protective equipment for firefighters

: RNA 6000 Nano Gel

RNA Nano Dye

Concentrate

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.

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

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SECTION 5: Firefighting measures

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

For non-emergency personnel

: 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.

For emergency responders

: 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".

6.2 Environmental precautions

: 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).

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SECTION 6: Accidental release measures

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

Methods for cleaning up

: 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

Protective measures

: RNA 6000 Nano Gel Matrix

Put on appropriate personal protective equipment (see Section 8).

RNA Nano Dye

Put on appropriate personal protective equipment (see

Section 8).

Concentrate

Put on appropriate personal protective equipment (see

RNA 6000 Nano Marker

RNA 6000 Nano Ladder

Section 8).

Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene : 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

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. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and

protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas

RNA 6000 Nano Ladder where this material is handled, stored and processed.

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SECTION 7: Handling and storage

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage

: 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)

Recommendations

: 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. Industrial applications, Professional applications.

RNA 6000 Nano Ladder

Not available.

solutions

Industrial sector specific : RNA 6000 Nano Gel

Matrix

Not available.

RNA Nano Dye Concentrate

RNA 6000 Nano Marker

RNA 6000 Nano Ladder

Not available. Not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: 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 sideshields.

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.

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SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : RNA 6000 Nano Gel Liquid.

Matrix

RNA Nano Dye Liquid.

Concentrate

RNA 6000 Nano Marker Liquid. RNA 6000 Nano Ladder Liquid.

Colour : RNA 6000 Nano Gel Not available.

Matrix

RNA Nano Dye Blue.

Concentrate

RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available.

Odour : RNA 6000 Nano Gel Not available.

Matrix

RNA Nano Dye Not available.

Concentrate

RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available. RNA 6000 Nano Gel Not available.

Odour threshold : RNA 6000 Nano Gel

Matrix

RNA Nano Dye Not available.

Concentrate

RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available.

0°C

Melting point/freezing

point

: RNA 6000 Nano Gel

Matrix

RNA Nano Dye 18.4°C

Concentrate

RNA 6000 Nano Marker 0°C RNA 6000 Nano Ladder 0°C RNA 6000 Nano Gel 100°C

Initial boiling point and boiling range

Matrix

RNA Nano Dye 189°C

Concentrate

RNA 6000 Nano Marker 100°C RNA 6000 Nano Ladder 100°C

Flammability : RNA 6000 Nano Gel Not applicable.

Matrix

RNA Nano Dye Not applicable.

Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder Not applicable. RNA 6000 Nano Gel Not available.

Upper/lower flammability : or explosive limits

Matrix

RNA Nano Dye Not available.

Concentrate

RNA 6000 Nano Marker Not available.
RNA 6000 Nano Ladder Not available.

Flash point : RNA 6000 Nano Gel Not available.

Matrix

RNA Nano Dye Closed cup: 94°C

Concentrate

RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available.

Auto-ignition temperature

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SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
RNA Nano Dye Concentrate		
dimethyl sulfoxide	300 to 302	-

Decomposition temperature

pН

: RNA 6000 Nano Gel

Not available.

Matrix

RNA Nano Dye

Not available.

Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder Not available.

RNA 6000 Nano Gel Not available.

Matrix

RNA Nano Dye

Not available.

Concentrate

RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available. RNA 6000 Nano Gel Not available.

Matrix

RNA Nano Dye

Not available.

Concentrate

RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available.

Solubility(ies)

Viscosity

Media	Result
RNA 6000 Nano Gel Matrix water	Soluble
RNA Nano Dye Concentrate water RNA 6000 Nano Marker	Soluble
water RNA 6000 Nano Ladder	Soluble
water	Soluble

Partition coefficient: noctanol/water : RNA 6000 Nano Gel

Not applicable.

Matrix

RNA Nano Dye

Not applicable.

Concentrate

RNA 6000 Nano Marker Not applicable. RNA 6000 Nano Ladder Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
RNA 6000 Nano Gel Matrix						
water	17.5	2.3	-	92.258	12.3	-
RNA Nano Dye Concentrate						
dimethyl sulfoxide	0.42	0.056	EU A.4	-	-	-
RNA 6000 Nano Marker						
water	17.5	2.3	-	92.258	12.3	-
RNA 6000 Nano Ladder						

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Ireland Agilent RNA 6000 Nano Reagents, Part Number 5067-1512 SECTION 9: Physical and chemical properties 17.5 2.3 92.258 12.3 water **Evaporation rate** : RNA 6000 Nano Gel Not available. Matrix Not available. RNA Nano Dye Concentrate RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available. Not available. **Relative density** : RNA 6000 Nano Gel Matrix RNA Nano Dye Not available. Concentrate RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available. Vapour density RNA 6000 Nano Gel Not available. Matrix RNA Nano Dye Not available. Concentrate RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available. : RNA 6000 Nano Gel Not available. **Explosive properties** Matrix RNA Nano Dye Not available. Concentrate RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available. **Oxidising properties** : RNA 6000 Nano Gel Not available. Matrix RNA Nano Dye Not available. Concentrate Not available. RNA 6000 Nano Marker

Particle characteristics

Median particle size : RNA 6000 Nano Gel Not applicable.

Matrix

RNA Nano Dye

Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder

RNA 6000 Nano Ladder

Not available.

Not applicable.

Not applicable. Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

RNA 6000 Nano Gel 10.1 Reactivity No specific test data related to reactivity available for this

> Matrix product or its ingredients.

RNA Nano Dye No specific test data related to reactivity available for this

Concentrate product or its ingredients.

No specific test data related to reactivity available for this RNA 6000 Nano Marker

product or its ingredients.

RNA 6000 Nano Ladder No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : RNA 6000 Nano Gel The product is stable.

Matrix

RNA Nano Dye The product is stable.

Concentrate

RNA 6000 Nano Marker The product is stable. RNA 6000 Nano Ladder The product is stable.

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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions RNA 6000 Nano Gel

Under normal conditions of storage and use, hazardous reactions will not occur.

Matrix RNA Nano Dye

Under normal conditions of storage and use, hazardous

Concentrate

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.

10.4 Conditions to avoid

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.

10.5 Incompatible materials

: 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 RNA 6000 Nano Ladder May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Concentrate RNA 6000 Nano Marker Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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

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.

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SECTION 11: Toxicological information

Aspiration hazard

Not available.

Ingestion

Skin contact

Skin contact

Information on likely routes of exposure

RNA 6000 Nano Gel

Matrix

Not available.

RNA Nano Dye

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Concentrate

RNA 6000 Nano Marker Not available. RNA 6000 Nano Ladder Not available.

Potential acute health effects

Inhalation : RNA 6000 Nano Gel No known significant effects or critical hazards.

Matrix

RNA Nano Dye

No known significant effects or critical hazards.

Concentrate

RNA 6000 Nano Marker No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards. RNA 6000 Nano Gel No known significant effects or critical hazards.

Matrix

RNA Nano Dye

Concentrate RNA 6000 Nano Marker No known significant effects or critical hazards.

No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards.

: 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. RNA 6000 Nano Gel No known significant effects or critical hazards.

Eye contact

Matrix

No known significant effects or critical hazards.

RNA Nano Dye Concentrate

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

Inhalation : RNA 6000 Nano Gel No specific data.

Matrix

RNA Nano Dye No specific data.

Concentrate

RNA 6000 Nano Marker No specific data. RNA 6000 Nano Ladder No specific data. RNA 6000 Nano Gel No specific data.

Ingestion

Matrix

No specific data.

RNA Nano Dye Concentrate

RNA 6000 Nano Marker No specific data. RNA 6000 Nano Ladder No specific data. RNA 6000 Nano Gel

No specific data.

Matrix

RNA Nano Dye No specific data.

Concentrate

RNA 6000 Nano Marker No specific data. RNA 6000 Nano Ladder No specific data.

Eye contact : RNA 6000 Nano Gel

No specific data.

Matrix

RNA Nano Dye No specific data.

Concentrate

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

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SECTION 11: Toxicological information

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

Conclusion/Summary : Not available.

General : RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Concentrate

RNA 6000 Nano Marker No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards.

Carcinogenicity RNA 6000 Nano Gel

Matrix

RNA Nano Dye

Concentrate

RNA 6000 Nano Marker No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards. No known significant effects or critical hazards.

: RNA 6000 Nano Gel Mutagenicity

Matrix

RNA Nano Dye

Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder

: RNA 6000 Nano Gel Reproductive toxicity

Matrix

RNA Nano Dye Concentrate

RNA 6000 Nano Marker

No known significant effects or critical hazards.

No known significant effects or critical hazards. RNA 6000 Nano Ladder No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Not available.

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

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SECTION 12: Ecological information

Soil/water partition coefficient (Koc)

: 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 Endocrine disrupting properties

Not available.

12.7 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 or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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.

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SECTION 14: Transport information

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

No listed substance

Label : 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 : Listed

(integrated pollution prevention and control)

- Air

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.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : Not determined.

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SECTION 15: Regulatory information

Eurasian Economic

Union

: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : All components are listed or exempted.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.
Viet Nam : Not determined.

15.2 Chemical safety

assessment

: This product contains substances for which Chemical Safety Assessments might still

be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

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.

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