SAFETY DATA SHEET



Agilent RNA 6000 Nano Kit, Part Number 5067-1511

Section 1. Identification

: Agilent RNA 6000 Nano Kit, Part Number 5067-1511 **Product identifier**

Part no. (chemical kit) : 5067-1511

Part no. Reagents RNA Nano G2938-80023

RNA 6000 Nano Gel Matrix Not available. RNA Nano Dye Concentrate Not available. RNA 6000 Nano Marker Not available. RNA 6000 Nano ladder G2938-80038 RNA 6000 Nano Ladder Not available.

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

Material 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

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170. Australia

1800 802 402

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

GHS label elements

No signal word. Signal word : RNA 6000 Nano Gel Matrix

> No signal word. RNA Nano Dye Concentrate RNA 6000 Nano Marker No signal word. RNA 6000 Nano Ladder No signal word.

Hazard statements : 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.

Precautionary statements

Response

Prevention : RNA 6000 Nano Gel Matrix Not applicable.

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

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

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Section 2. Hazard(s) identification

Storage	: 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.
Disposal	: 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.

Supplemental label elements

Additional warning phrases

: RNA 6000 Nano Gel Matrix No RNA Nano Dye Concentrate No RNA 6000 Nano Marker No RNA 6000 Nano Ladder No

Not applicable. Not applicable. Not applicable. Not applicable.

Other hazards which do not : RNA 6000 Nano Gel Matrix result in classification : RNA Nano Dye Concentrate

RNA 6000 Nano Gel Matrix N RNA Nano Dye Concentrate N RNA 6000 Nano Marker N RNA 6000 Nano Ladder N

None known. None known. None known. None known.

Section 3. Composition and ingredient information

Substance/mixture : RNA 6000 Nano Gel Matrix

RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder Mixture Mixture Mixture Mixture

CAS number/other identifiers

Ingredient name	% (w/w)	CAS number	
RNA Nano Dye Concentrate Dimethyl sulfoxide	≥90	67-68-5	

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

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

Section 4. First aid measures

Description of necessary first aid measures

Eye contact: 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.

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Section 4. First aid measures

36011011 4. 1 1151 a	iiu iiieasures	
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 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.
Skin contact	: 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.
	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 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
	RNA 6000 Nano Marker	personnel. Get medical attention if symptoms occur. 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.
Most important symptoms	/effects, acute and delayed	
Potential acute health effe		
Eye contact	: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate	No known significant effects or critical hazards. No known significant effects or critical hazards.

	RNA 6000 Nano Marker	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	RNA Nano Dye Concentrate RNA 6000 Nano Marker	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	RNA Nano Dye Concentrate RNA 6000 Nano Marker	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

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Section 4. First aid measures

Ingestion	:	RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker	No known significant effects or critical hazards. 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.
Over-exposure signs/symp	ton	<u>ns</u>	·
Eye contact	:	RNA 6000 Nano Gel Matrix	No specific data.
-		RNA Nano Dye Concentrate	No specific data.

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

Inhalation : RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Marker RNA 6000 Nano Ladder No specific data.

RNA 6000 Nano Ladder No specific data.

RNA 6000 Nano Ladder No specific data.

Skin contact: 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.

Ingestion : 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.

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

Notes to physician	RNA 6000 Nano Gel Matrix	Т	reat symptomatically.	Contact poison treatment
		_	poololist immodiately i	florae augntities have been

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.

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

RNA Nano Dye Concentrate
RNA 6000 Nano Marker
RNA 6000 Nano Ladder

No specific treatment.
No specific treatment.

Protection of first-aiders : 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.

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

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Section 5. Firefighting measures

Section 5. Firetigi	illing illeasures	
Suitable extinguishing media	: 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.
Unsuitable extinguishing	: RNA 6000 Nano Gel Matrix	None known.
media	RNA Nano Dye Concentrate RNA 6000 Nano Marker	None known. None known.
	RNA 6000 Nano Ladder	None known.
Specific hazards arising from the chemical	: 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.
Hazardous thermal	: RNA 6000 Nano Gel Matrix	No specific data.
decomposition products	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.
Special protective actions for fire-fighters	: 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.
Special protective equipment for fire-fighters	: 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.
	RNA Nano Dye Concentrate	
	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
	RNA 6000 Nano Ladder	pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

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Section 6. Accidental release measures

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

RNA Nano Dye Concentrate

RNA 6000 Nano Marker

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". 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". 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". 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".

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).

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).

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Section 6. Accidental release measures

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.

Section 7. Handling and storage

Precautions for safe handling

Protective measures : 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).

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 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

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Section 7. Handling and storage

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.

Conditions for safe storage, : RNA 6000 Nano Gel Matrix including any incompatibilities

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. Store in accordance with local regulations. Store in

RNA Nano Dye Concentrate

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. 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. 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

RNA 6000 Nano Marker

Section 8. Exposure controls and personal protection

Control parameters

Occupational exposure limits

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Section 8. Exposure controls and personal protection

Ingredient name	Exposure limits
RNA Nano Dye Concentrate Dimethyl sulfoxide	DFG MAC-values list (Germany, 8/2020). Absorbed through skin. PEAK: 320 mg/m³, 4 times per shift, 15 minutes. TWA: 160 mg/m³ 8 hours. PEAK: 100 ppm, 4 times per shift, 15 minutes. TWA: 50 ppm 8 hours.

Appropriate engineering controls

Environmental exposure controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: 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.

Section 9. Physical and chemical properties and safety characteristics

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

Appearance

Physical state

: RNA 6000 Nano Gel Matrix Liquid. RNA Nano Dye Concentrate Liquid. RNA 6000 Nano Marker Liquid. RNA 6000 Nano Ladder Liquid.

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Section 9. Physical and chemical properties and safety characteristics

onal actoriotics								
Colour	:	RNA 6000 Nano Gel RNA Nano Dye Cond RNA 6000 Nano Mar	centrate	Not avail Blue. Not avail				
		RNA 6000 Nano Lad		Not avail				
Odour	:	RNA 6000 Nano Gel RNA Nano Dye Cono RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not avail Not avail Not avail Not avail	able. able.			
Odour threshold	:	RNA 6000 Nano Gel RNA Nano Dye Cono RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not avail Not avail Not avail Not avail	able. able.			
pH	:	RNA 6000 Nano Gel RNA Nano Dye Cono RNA 6000 Nano Mar RNA 6000 Nano Lad	centrate ker	Not avail Not avail Not avail Not avail	able. able.			
Melting point/freezing point	:	RNA 6000 Nano Gel RNA Nano Dye Cond RNA 6000 Nano Mar RNA 6000 Nano Lad	centrate ker	0°C (32° 18.4°C (6 0°C (32° 0°C (32°	65.1°F) F)			
Boiling point, initial boiling point, and boiling range	:	RNA 6000 Nano Gel RNA Nano Dye Cond RNA 6000 Nano Mar RNA 6000 Nano Lad	centrate ker	100°C (2 189°C (3 100°C (2 100°C (2	72.2°F) 12°F)			
Flash point	:	RNA 6000 Nano Gel RNA Nano Dye Cond RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not avail Closed c Not avail Not avail	up: 94°C (20 able.	1.2°F)		
				Closed	cup		Open o	cup
		Ingredient name	00		Mathad	00	1	Method
			°C	°F	Method	°C	°F	Method
		RNA 6000 Nano Gel Matrix	30	°F	Wethod	30	°F	Wethou
		RNA 6000 Nano Gel	>100	°F >212	Method		°F	Wethou
		MA 6000 Nano Gel Matrix Acetic acid, (ethylenedinitrilo)tetra-,			Method		°F	Wethou
		MA 6000 Nano Gel Matrix Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate			Method		°F	Wethou
Evaporation rate	:	Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate RNA 6000 Nano Ladder Acetic acid, (ethylenedinitrilo)tetra-, (ethylenedinitrilo)tetra-,	>100 >100 Matrix centrate ker	>212	able. able. able.		°F	Wethou
Flammability		Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate RNA 6000 Nano Ladder Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate RNA 6000 Nano Gel RNA 6000 Nano Gel RNA Nano Dye Conc RNA 6000 Nano Mar	>100 Matrix centrate ker der Matrix centrate ker	>212 >212 Not avail Not avail Not avail	able. able. able. cable. cable. cable. cable.		*F	Method
	:	RNA 6000 Nano Gel Matrix Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate RNA 6000 Nano Ladder Acetic acid, (ethylenedinitrilo)tetra-, disodium salt, dihydrate RNA 6000 Nano Gel RNA Nano Dye Conc RNA 6000 Nano Mar RNA 6000 Nano Lad RNA 6000 Nano Gel RNA Nano Dye Conc RNA 6000 Nano Gel RNA Nano Dye Conc RNA 6000 Nano Mar RNA 6000 Nano Mar RNA 6000 Nano Mar RNA 6000 Nano Mar	>100 Matrix centrate cher der Matrix centrate cher der Matrix centrate cher der Matrix centrate cher cher cher cher cher cher cher che	>212 Not avail Not avail Not avail Not appli Not appli Not appli	able. able. able. cable. cable. cable. cable. able. able. able.		*F	Method

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Section 9. Physical and chemical properties and safety characteristics

		Vapou		ur Pressure at 20°C			Vapour pressure at 50°C		
		Ingredient name	mm Hg	kPa	Metho	d	mm Hg	kPa	Method
	•	RNA 6000 Nano Gel Matrix							
		Water	23.8	3.2			92.258	12.3	
		RNA Nano Dye Concentrate							
		Dimethyl sulfoxide	0.42	0.056	EU A.4				
		RNA 6000 Nano Marker							
		Water	23.8	3.2			92.258	12.3	
		RNA 6000 Nano Ladder							
		Water	23.8	3.2			92.258	12.3	
Relative vapour density		RNA 6000 Nano Gel RNA Nano Dye Cond RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not avail Not avail Not avail Not avail	able. able.				
Relative density		RNA 6000 Nano Gel RNA Nano Dye Cond RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not avail Not avail Not avail Not avail	able. able.				
Solubility	:	RNA 6000 Nano Gel Matrix		Easily soluble in the following materials: cold water and hot water.					
		RNA Nano Dye Cond		water.					water and hot
		RNA 6000 Nano Mar	ker	Easily so and hot w		the fo	llowing	materials	s: cold water
		RNA 6000 Nano Lad	der	Easily so and hot w		the fo	llowing	materials	s: cold water
Partition coefficient: n-octanol/water		MA 6000 Nano Gel RNA Nano Dye Conc RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not appli Not appli Not appli Not appli	icable. icable.				
Auto-ignition temperature	:	Ingredient name		°C	•	F	I	Method	
		RNA Nano Dye Concent	rate						
		Dimethyl sulfoxide		300 to 30	02 5	72 to 57	75.6		
Decomposition temperature		RNA 6000 Nano Gel RNA Nano Dye Cono RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not avail Not avail Not avail Not avail	able. able.				
Viscosity		RNA 6000 Nano Gel RNA Nano Dye Cono RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not avail Not avail Not avail Not avail	able. able.				
Particle characteristics									
Median particle size		MA 6000 Nano Gel RNA Nano Dye Cond RNA 6000 Nano Mar RNA 6000 Nano Lad	entrate ker	Not appli Not appli Not appli Not appli	icable. icable.				

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Section 10. Stability and reactivity

Reactivity	: RNA 6000 Nano Gel Matrix No specific test data related to reactivity available f this product or its ingredients.	or
	RNA Nano Dye Concentrate No specific test data related to reactivity available f this product or its ingredients.	or
	RNA 6000 Nano Marker No specific test data related to reactivity available f this product or its ingredients.	or
	RNA 6000 Nano Ladder No specific test data related to reactivity available f this product or its ingredients.	or
Chemical stability	: RNA 6000 Nano Gel Matrix The product is stable. RNA Nano Dye Concentrate 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.	
Possibility of hazardous reactions	: RNA 6000 Nano Gel Matrix Under normal conditions of storage and use, hazardous reactions will not occur.	
reactions	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.	
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 Marker No specific data. RNA 6000 Nano Ladder No specific data.	
Incompatible materials	: RNA 6000 Nano Gel Matrix May react or be incompatible with oxidising materia	
	RNA Nano Dye Concentrate May react or be incompatible with oxidising materia	
	RNA 6000 Nano Marker May react or be incompatible with oxidising material RNA 6000 Nano Ladder May react or be incompatible with oxidising material may react or be incompatible.	
Hazardous decomposition products	: 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	
	RNA 6000 Nano Marker Under normal conditions of storage and use, hazardous decomposition products should not be	
	RNA 6000 Nano Ladder Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
RNA Nano Dye Concentrate Dimethyl sulfoxide	LD50 Dermal LD50 Oral	Rat Rat	40000 mg/kg 14500 mg/kg	-

Irritation/Corrosion

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Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
RNA Nano Dye Concentrate					
Dimethyl sulfoxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Mild irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	100 mg	-

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary

<u>Carcinogenicity</u>

Conclusion/Summary

Reproductive toxicity

Conclusion/Summary

: Not available.

: Not available.

: 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 RNA Nano Dye Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder Not available.

Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available. Not available.

Potential acute health effects

Eye contact

Inhalation

Skin contact

Ingestion

RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker

RNA 6000 Nano Ladder

: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate

RNA 6000 Nano Marker RNA 6000 Nano Ladder

: RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker RNA 6000 Nano Ladder

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. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact

RNA 6000 Nano Gel Matrix RNA Nano Dye Concentrate RNA 6000 Nano Marker

RNA 6000 Nano Ladder

No specific data. No specific data. No specific data. No specific data.

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Inhalation : 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.

Skin contact : RNA 6000 Nano Gel Matrix No specific data. RNA Nano Dye Concentrate No specific data.

RNA Nano Dye Concentrate
RNA 6000 Nano Marker
RNA 6000 Nano Ladder

RNA 6000 Nano Gel Matrix
No specific data.
No specific data.
No specific data.

RNA Nano Dye 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

Short term exposure

Potential immediate : Not available.

effects

Ingestion

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General: 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. No known significant effects or critical hazards.

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

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.

Mutagenicity: 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. No known significant effects or critical hazards.

Reproductive toxicity : No known significant effects or critical hazards.

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.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	,		Inhalation (dusts and mists) (mg/l)
RNA Nano Dye Concentrate Dimethyl sulfoxide	14500	40000	N/A	N/A	N/A

Other information : NA 6000 Nano Gel Matrix Not available.

RNA Nano Dye Concentrate Not available.

RNA 6000 Nano Marker
RNA 6000 Nano Ladder

Not available.
Not available.
Not available.

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Section 12. Ecological information

Toxicity

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

Persistence and degradability

RNA Nano Dye Concentrate Dimethyl sulfoxide OECD 301D Ready Biodegradability -	oduct/ingredient name	Inoculum
Closed Bottle Test	oncentrate	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
RNA Nano Dye			
Concentrate			
Dimethyl sulfoxide	-	-	Not readily

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
RNA Nano Dye Concentrate Dimethyl sulfoxide	-1.35	3.16	low

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

Disposal methods

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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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Section 14. Transport information

ADG / IMDG / IATA : Not regulated as Dangerous Goods according to the ADG Code .

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

Standard for the Uniform Scheduling of Medicines and Poisons

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

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. **Europe** : Not determined.

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

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

Section 16. Any other relevant information

History

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Section 16. Any other relevant information

Key to abbreviations

: ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

Procedure used to derive the classification

Classification

Not classified.

References : Not available.

✓ Indicates information that has changed from previously issued version.

Notice to reader

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