Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET

Agilent Technologies

Agilent RNA 6000 Nano Ladder, Part Number 5067-1529

Section 1. Identification

1.1 Product identifier

Product name : Agilent RNA 6000 Nano Ladder, Part Number 5067-1529

Part No. (Chemical Kit) : 5067-1529

Part No. : RNA 6000 Nano Ladder G2938-80038
RNA 6000 Nano Ladder Not available.

Validation date : 10/27/2017

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

Material uses : Analytical chemistry.
Research and Development
RNA 6000 Nano Ladder 1 x 0.035 ml

1.3 Details of the supplier of the safety data sheet

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

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : RNA 6000 Nano Ladder

While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910. 1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word : RNA 6000 Nano Ladder No signal word.

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

Precautionary statements

Prevention : RNA 6000 Nano Ladder Not applicable.

Response : RNA 6000 Nano Ladder Not applicable.

Storage : RNA 6000 Nano Ladder Not applicable.

Disposal : RNA 6000 Nano Ladder Not applicable.

Supplemental label elements : RNA 6000 Nano Ladder None known.

2.3 Other hazards

Hazards not otherwise classified : RNA 6000 Nano Ladder None known.

Section 3. Composition/information on ingredients

Substance/mixture : RNA 6000 Nano Ladder Mixture

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

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 and hence require reporting in this section.

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

Eye contact	: RNA 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.
Inhalation	: 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 Ladder	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: RNA 6000 Nano Ladder	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Inhalation	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Skin contact	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Ingestion	: RNA 6000 Nano Ladder	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: RNA 6000 Nano Ladder	No specific data.
Inhalation	: RNA 6000 Nano Ladder	No specific data.
Skin contact	: RNA 6000 Nano Ladder	No specific data.
Ingestion	: RNA 6000 Nano Ladder	No specific data.

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

Notes to physician	: RNA 6000 Nano Ladder	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: RNA 6000 Nano Ladder	No specific treatment.
Protection of first-aiders	: RNA 6000 Nano Ladder	No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: RNA 6000 Nano Ladder	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: RNA 6000 Nano Ladder	None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: RNA 6000 Nano Ladder	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous thermal decomposition products	: RNA 6000 Nano Ladder	No specific data.

5.3 Advice for firefighters

Special protective actions for fire-fighters	: 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 Ladder	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: RNA 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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	: RNA 6000 Nano Ladder	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
6.2 Environmental precautions	: RNA 6000 Nano Ladder	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up	: RNA 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

7.1 Precautions for safe handling

Protective measures	: RNA 6000 Nano Ladder	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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	: RNA 6000 Nano Ladder	Storage temperature: -20°C (-4°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: RNA 6000 Nano Ladder	Industrial applications, Professional applications.
Industrial sector specific solutions	: RNA 6000 Nano Ladder	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
None.	

8.2 Exposure controls

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

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

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Section 8. Exposure controls/personal protection

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	RNA 6000 Nano Ladder	Liquid.
Color	:	RNA 6000 Nano Ladder	Not available.
Odor	:	RNA 6000 Nano Ladder	Not available.
Odor threshold	:	RNA 6000 Nano Ladder	Not available.
pH	:	RNA 6000 Nano Ladder	Not available.
Melting point	:	RNA 6000 Nano Ladder	0°C (32°F)
Boiling point	:	RNA 6000 Nano Ladder	100°C (212°F)
Flash point	:	RNA 6000 Nano Ladder	Not available.
Evaporation rate	:	RNA 6000 Nano Ladder	Not available.
Flammability (solid, gas)	:	RNA 6000 Nano Ladder	Not applicable.
Lower and upper explosive (flammable) limits	:	RNA 6000 Nano Ladder	Not available.
Vapor pressure	:	RNA 6000 Nano Ladder	Not available.
Vapor density	:	RNA 6000 Nano Ladder	Not available.
Relative density	:	RNA 6000 Nano Ladder	Not available.
Solubility	:	RNA 6000 Nano Ladder	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	:	RNA 6000 Nano Ladder	Not available.
Auto-ignition temperature	:	RNA 6000 Nano Ladder	Not available.
Decomposition temperature	:	RNA 6000 Nano Ladder	Not available.
Viscosity	:	RNA 6000 Nano Ladder	Not available.

Section 10. Stability and reactivity

10.1 Reactivity	:	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 Ladder	The product is stable.
10.3 Possibility of hazardous reactions	:	RNA 6000 Nano Ladder	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	RNA 6000 Nano Ladder	No specific data.
10.5 Incompatible materials	:	RNA 6000 Nano Ladder	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	:	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.

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	:	RNA 6000 Nano Ladder	Not available.

Potential acute health effects

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

Section 11. Toxicological information

Inhalation	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Skin contact	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Ingestion	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	:	RNA 6000 Nano Ladder	No specific data.
Inhalation	:	RNA 6000 Nano Ladder	No specific data.
Skin contact	:	RNA 6000 Nano Ladder	No specific data.
Ingestion	:	RNA 6000 Nano Ladder	No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Long term exposure

Potential immediate effects	:	Not available.
Potential delayed effects	:	Not available.

Potential chronic health effects

General	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Carcinogenicity	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Mutagenicity	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Teratogenicity	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Developmental effects	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.
Fertility effects	:	RNA 6000 Nano Ladder	No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Not available.

12.4 Mobility in soil

Section 12. Ecological information

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

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

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

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

Section 15. Regulatory information

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

U.S. Federal regulations : **TSCA 8(a) CDR Exempt/Partial exemption**: Not determined

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : RNA 6000 Nano Ladder Not applicable.

Composition/information on ingredients

No products were found.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : **Japan inventory (ENCS)**: Not determined.
Japan inventory (ISHL): All components are listed or exempted.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

Section 15. Regulatory information

United States : All components are listed or exempted.

Viet Nam : Not determined.

Section 16. Other information

History

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Version : 6

Indicates information that has changed from previously issued version.

Notice to reader

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