

SAFETY DATA SHEET



Agilent Small RNA Kit, Part Number 5067-1548

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

1.1 Product identifier

Product name	: Agilent Small RNA Kit, Part Number 5067-1548
Part No. (Kit)	: 5067-1548
Part No.	: <u>Agilent small RNA Reagents Part I</u> <u>G2938-80000</u>
	Small RNA Gel Matrix Not available.
	Small RNA Marker Not available.
	Small RNA Dye Concentrate Not available.
	Small RNA Conditioning Solution Not available.
	<u>Agilent small RNA Reagents Part II</u> <u>G2938-80001</u>
	Small RNA Ladder Not available.

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

Identified uses	
Analytical chemistry. Research and Development	
Small RNA Gel Matrix	2 x 0.65 ml
Small RNA Marker	4 x 0.6 ml
Small RNA Dye Concentrate	1 x 0.07 ml
Small RNA Conditioning Solution	1 x 0.27 ml
Small RNA Ladder	1 x 0.035 ml

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG
Hewlett-Packard-Str. 8
76337 Waldbronn
Germany
0800 603 1000

e-mail address of person responsible for this SDS : pdl-msds_author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of operation) : CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Small RNA Gel Matrix	Mixture
	Small RNA Marker	Mixture
	Small RNA Dye Concentrate	Mixture
	Small RNA Conditioning Solution	Mixture
	Small RNA Ladder	Mixture

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

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SECTION 2: Hazards identification

Not classified.

Ingredients of unknown toxicity	: Small RNA Gel Matrix	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10 - 30%
	Small RNA Marker	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
	Small RNA Conditioning Solution	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 10 - 30%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 10 - 30%
Ingredients of unknown ecotoxicity	: Small RNA Gel Matrix	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.6%
	Small RNA Marker	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1%
	Small RNA Conditioning Solution	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.6%

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	: Small RNA Gel Matrix	No signal word.
	Small RNA Marker	No signal word.
	Small RNA Dye Concentrate	No signal word.
	Small RNA Conditioning Solution	No signal word.
	Small RNA Ladder	No signal word.
Hazard statements	: Small RNA Gel Matrix	No known significant effects or critical hazards.
	Small RNA Marker	No known significant effects or critical hazards.
	Small RNA Dye Concentrate	No known significant effects or critical hazards.
	Small RNA Conditioning Solution	No known significant effects or critical hazards.
	Small RNA Ladder	No known significant effects or critical hazards.
Precautionary statements		
Prevention	: Small RNA Gel Matrix	Not applicable.
	Small RNA Marker	Not applicable.
	Small RNA Dye Concentrate	Not applicable.
	Small RNA Conditioning Solution	Not applicable.
	Small RNA Ladder	Not applicable.

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SECTION 2: Hazards identification

Response	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate	Not applicable. Not applicable. Not applicable.
		Small RNA Conditioning Solution Small RNA Ladder	Not applicable. Not applicable.
Storage	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate	Not applicable. Not applicable. Not applicable.
		Small RNA Conditioning Solution Small RNA Ladder	Not applicable. Not applicable.
Disposal	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate	Not applicable. Not applicable. Not applicable.
		Small RNA Conditioning Solution Small RNA Ladder	Not applicable. Not applicable.
Supplemental label elements	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate	Not applicable. Not applicable. Not applicable.
		Small RNA Conditioning Solution Small RNA Ladder	Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate	Not applicable. Not applicable. Not applicable.
		Small RNA Conditioning Solution Small RNA Ladder	Not applicable. Not applicable.
<u>Special packaging requirements</u>			
Tactile warning of danger	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate	Not applicable. Not applicable. Not applicable.
		Small RNA Conditioning Solution Small RNA Ladder	Not applicable. Not applicable.
2.3 Other hazards			
Other hazards which do not result in classification	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate	None known. None known. None known.
		Small RNA Conditioning Solution Small RNA Ladder	None known. None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances	:	Small RNA Gel Matrix	Mixture
		Small RNA Marker	Mixture
		Small RNA Dye Concentrate	Mixture
		Small RNA Conditioning Solution	Mixture
		Small RNA 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.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Small RNA 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.
		Small RNA 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.
		Small RNA 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.
		Small RNA Conditioning Solution	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
		Small RNA 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	:	Small RNA Gel Matrix	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Small RNA Marker	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Small RNA Dye Concentrate	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		Small RNA Conditioning Solution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
		Small RNA Ladder	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

SECTION 4: First aid measures

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

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

SECTION 4: First aid measures

Eye contact	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA 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.
Inhalation	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA 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.
Skin contact	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA 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.
Ingestion	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA 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.

Over-exposure signs/symptoms

Eye contact	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Inhalation	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Skin contact	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Ingestion	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

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Notes to physician	: Small RNA Gel Matrix	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Small RNA Marker	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Small RNA Dye Concentrate	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	Small RNA Conditioning Solution	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	Small RNA Ladder	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Small RNA Gel Matrix	No specific treatment.
	Small RNA Marker	No specific treatment.
	Small RNA Dye Concentrate	No specific treatment.
	Small RNA Conditioning Solution	No specific treatment.
	Small RNA Ladder	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Small RNA Gel Matrix	Use an extinguishing agent suitable for the surrounding fire.
	Small RNA Marker	Use an extinguishing agent suitable for the surrounding fire.
	Small RNA Dye Concentrate	Use an extinguishing agent suitable for the surrounding fire.
	Small RNA Conditioning Solution	Use an extinguishing agent suitable for the surrounding fire.
	Small RNA Ladder	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Small RNA Gel Matrix	None known.
	Small RNA Marker	None known.
	Small RNA Dye Concentrate	None known.
	Small RNA Conditioning Solution	None known.
	Small RNA Ladder	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Small RNA Gel Matrix	In a fire or if heated, a pressure increase will occur and the container may burst.
	Small RNA Marker	In a fire or if heated, a pressure increase will occur and the container may burst.
	Small RNA Dye Concentrate	In a fire or if heated, a pressure increase will occur and the container may burst.
	Small RNA Conditioning Solution	In a fire or if heated, a pressure increase will occur and the container may burst.
	Small RNA Ladder	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: Small RNA Gel Matrix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
	Small RNA Marker	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
	Small RNA Dye Concentrate	Decomposition products may include the following materials:

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	carbon dioxide carbon monoxide sulfur oxides
Small RNA Conditioning Solution	Decomposition products may include the following materials:
	carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
Small RNA Ladder	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters

: Small RNA 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.
Small RNA 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.
Small RNA 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.
Small RNA Conditioning Solution	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Small RNA 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

: Small RNA Gel Matrix	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Small RNA Marker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Small RNA Dye Concentrate	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
Small RNA Conditioning Solution	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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.
Small RNA 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	: Small RNA 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.
	Small RNA 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.
	Small RNA 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.
	Small RNA Conditioning Solution	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
	Small RNA 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	: Small RNA 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".
	Small RNA 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".
	Small RNA 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".
	Small RNA Conditioning Solution	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".
	Small RNA 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	: Small RNA 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).
	Small RNA 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).
	Small RNA 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).
	Small RNA Conditioning	Avoid dispersal of spilt material and runoff and contact with

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Solution	soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Small RNA 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	: Small RNA 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.
	Small RNA 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.
	Small RNA 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.
	Small RNA Conditioning Solution	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
	Small RNA 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	: Small RNA Gel Matrix	Put on appropriate personal protective equipment (see Section 8).
	Small RNA Marker	Put on appropriate personal protective equipment (see Section 8).
	Small RNA Dye Concentrate	Put on appropriate personal protective equipment (see Section 8).
	Small RNA Conditioning Solution	Put on appropriate personal protective equipment (see Section 8).
	Small RNA Ladder	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Small RNA 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.
	Small RNA Marker	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

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Small RNA Dye Concentrate	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.
Small RNA Conditioning Solution	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.
Small RNA Ladder	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.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: Small RNA Gel Matrix	Storage temperature: 4°C (39.2°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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Small RNA Marker	Storage temperature: 4°C (39.2°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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Small RNA Dye Concentrate	Storage temperature: 4°C (39.2°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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Small RNA Conditioning Solution	Storage temperature: 4°C (39.2°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

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Small RNA Ladder

not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. 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 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	: Small RNA Gel Matrix	Industrial applications, Professional applications.
	Small RNA Marker	Industrial applications, Professional applications.
	Small RNA Dye Concentrate	Industrial applications, Professional applications.
	Small RNA Conditioning Solution	Industrial applications, Professional applications.
	Small RNA Ladder	Industrial applications, Professional applications.
Industrial sector specific solutions	: Small RNA Gel Matrix	Not applicable.
	Small RNA Marker	Not applicable.
	Small RNA Dye Concentrate	Not applicable.
	Small RNA Conditioning Solution	Not applicable.
	Small RNA Ladder	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

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SECTION 8: Exposure controls/personal protection

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Small RNA Gel Matrix	Liquid.
	Small RNA Marker	Liquid.
	Small RNA Dye Concentrate	Liquid.
	Small RNA Conditioning Solution	Liquid.
	Small RNA Ladder	Liquid.
	Colour	: Small RNA Gel Matrix
Small RNA Marker		Not available.
Small RNA Dye Concentrate		Blue.
Small RNA Conditioning Solution		Not available.
Small RNA Ladder		Not available.
Odour		: Small RNA Gel Matrix
	Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.

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SECTION 9: Physical and chemical properties

Odour threshold	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
pH	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. 8 Not available. Not available. Not available. Not available. Not available.
Melting point/freezing point	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. 18.5°C Not available. Not available. 0°C
Initial boiling point and boiling range	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. 189°C Not available. Not available. 100°C
Flash point	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Closed cup: >93.3°C Closed cup: 87°C Not available. Not available. Not available.
Evaporation rate	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Flammability (solid, gas)	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Upper/lower flammability or explosive limits	:	Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.

SECTION 9: Physical and chemical properties

Vapour pressure	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Vapour density	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Relative density	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Solubility(ies)	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Auto-ignition temperature	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Decomposition temperature	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.
Viscosity	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	Not available. Not available. Not available. Not available. Not available. Not available. Not available.

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SECTION 9: Physical and chemical properties

Explosive properties	: Small RNA Gel Matrix	Not available.
	Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.
Oxidising properties	: Small RNA Gel Matrix	Not available.
	Small RNA Marker	Not available.
	Small RNA Dye Concentrate	Not available.
	Small RNA Conditioning Solution	Not available.
	Small RNA Ladder	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Small RNA Gel Matrix	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Marker	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Dye Concentrate	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Conditioning Solution	No specific test data related to reactivity available for this product or its ingredients.
	Small RNA Ladder	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Small RNA Gel Matrix	The product is stable.
	Small RNA Marker	The product is stable.
	Small RNA Dye Concentrate	The product is stable.
	Small RNA Conditioning Solution	The product is stable.
	Small RNA Ladder	The product is stable.
10.3 Possibility of hazardous reactions	: Small RNA Gel Matrix	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Dye Concentrate	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Conditioning Solution	Under normal conditions of storage and use, hazardous reactions will not occur.
	Small RNA Ladder	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Small RNA Gel Matrix	No specific data.
	Small RNA Marker	No specific data.
	Small RNA Dye Concentrate	No specific data.
	Small RNA Conditioning Solution	No specific data.
	Small RNA Ladder	No specific data.

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SECTION 10: Stability and reactivity

10.5 Incompatible materials	: Small RNA Gel Matrix	May react or be incompatible with oxidising materials.
	Small RNA Marker	May react or be incompatible with oxidising materials.
	Small RNA Dye Concentrate	May react or be incompatible with oxidising materials.
	Small RNA Conditioning Solution	May react or be incompatible with oxidising materials.
	Small RNA Ladder	May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: Small RNA Gel Matrix	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA Marker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA Dye Concentrate	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA Conditioning Solution	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Small RNA 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

Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

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

: Small RNA Gel Matrix	Not available.
Small RNA Marker	Not available.
Small RNA Dye Concentrate	Routes of entry anticipated: Oral, Dermal, Inhalation.
Small RNA Conditioning Solution	Not available.
Small RNA Ladder	Not available.

Potential acute health effects

Inhalation	: Small RNA Gel Matrix	No known significant effects or critical hazards.
	Small RNA Marker	No known significant effects or critical hazards.
	Small RNA Dye Concentrate	No known significant effects or critical hazards.
	Small RNA Conditioning Solution	No known significant effects or critical hazards.
	Small RNA Ladder	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Ingestion	:	Small RNA Gel Matrix	No known significant effects or critical hazards.
		Small RNA Marker	No known significant effects or critical hazards.
		Small RNA Dye Concentrate	No known significant effects or critical hazards.
		Small RNA Conditioning Solution	No known significant effects or critical hazards.
		Small RNA Ladder	No known significant effects or critical hazards.
Skin contact	:	Small RNA Gel Matrix	No known significant effects or critical hazards.
		Small RNA Marker	No known significant effects or critical hazards.
		Small RNA Dye Concentrate	No known significant effects or critical hazards.
		Small RNA Conditioning Solution	No known significant effects or critical hazards.
		Small RNA Ladder	No known significant effects or critical hazards.
Eye contact	:	Small RNA Gel Matrix	No known significant effects or critical hazards.
		Small RNA Marker	No known significant effects or critical hazards.
		Small RNA Dye Concentrate	No known significant effects or critical hazards.
		Small RNA Conditioning Solution	No known significant effects or critical hazards.
		Small RNA Ladder	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	Small RNA Gel Matrix	No specific data.
		Small RNA Marker	No specific data.
		Small RNA Dye Concentrate	No specific data.
		Small RNA Conditioning Solution	No specific data.
		Small RNA Ladder	No specific data.
Ingestion	:	Small RNA Gel Matrix	No specific data.
		Small RNA Marker	No specific data.
		Small RNA Dye Concentrate	No specific data.
		Small RNA Conditioning Solution	No specific data.
		Small RNA Ladder	No specific data.
Skin contact	:	Small RNA Gel Matrix	No specific data.
		Small RNA Marker	No specific data.
		Small RNA Dye Concentrate	No specific data.
		Small RNA Conditioning Solution	No specific data.
		Small RNA Ladder	No specific data.
Eye contact	:	Small RNA Gel Matrix	No specific data.
		Small RNA Marker	No specific data.
		Small RNA Dye Concentrate	No specific data.
		Small RNA Conditioning Solution	No specific data.
		Small RNA Ladder	No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

SECTION 11: Toxicological information

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA 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.
Teratogenicity	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA 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.
Developmental effects	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA 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.
Fertility effects	: Small RNA Gel Matrix Small RNA Marker Small RNA Dye Concentrate Small RNA Conditioning Solution Small RNA Ladder	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

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SECTION 12: Ecological information

Not available.

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable.

vPvB : Not applicable.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

Hazardous waste : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

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

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

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

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

14.7 Transport in bulk according to 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

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.

Date of issue/Date of revision : 27/10/2017

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SECTION 15: Regulatory information

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Small RNA Gel Matrix	Not applicable.
	: Small RNA Marker	Not applicable.
	: Small RNA Dye Concentrate	Not applicable.
	: Small RNA Conditioning Solution	Not applicable.
	: Small RNA Ladder	Not applicable.

Other EU regulations

Industrial emissions (integrated pollution prevention and control) - Air : Listed

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

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 (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	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

15.2 Chemical safety assessment : This product contains substances for which Chemical Safety Assessments might still be required.

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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]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

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

Classification	Justification
Not classified.	

Full text of abbreviated H statements

Not applicable.

Full text of classifications [CLP/GHS]

Not applicable.

Date of issue/ Date of revision : 27/10/2017

Date of previous issue : No previous validation.

Version : 1

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