

# SAFETY DATA SHEET



Agilent DNA 7500 Kit, Part Number 5067-1506

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

### 1.1 Product identifier

**Product name** : Agilent DNA 7500 Kit, Part Number 5067-1506  
**Part no. (chemical kit)** : 5067-1506  
**Part no.** : Reagents DNA 7500 G2938-80021  
DNA 7500 Ladder Not available.  
DNA 7500 Marker Not available.  
DNA Dye Concentrate Not available.  
DNA 7500 Gel Matrix Not available.

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

**Material uses** : Analytical reagent.  
Research and Development  
DNA 7500 Ladder 1 x 0.035 ml  
DNA 7500 Marker 2 x 1.2 ml  
DNA Dye Concentrate 1 x 0.09 ml  
DNA 7500 Gel Matrix 3 x 0.5 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** : DNA 7500 Ladder Mixture  
DNA 7500 Marker Mixture  
DNA Dye Concentrate Mixture  
DNA 7500 Gel Matrix Mixture

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

**DNA Dye Concentrate**  
H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

**Ingredients of unknown toxicity** : DNA 7500 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%  
DNA 7500 Gel Matrix Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%  
Percentage of the mixture consisting of ingredient(s) of

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unknown inhalation toxicity: 1 - 10%  
 Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%  
 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.6%  
 Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 4.6%

**Ingredients of unknown ecotoxicity** : DNA 7500 Marker  
 DNA 7500 Gel Matrix

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

<b>Signal word</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	No signal word. No signal word. No signal word. No signal word.
<b>Hazard statements</b>	: <input checked="" type="checkbox"/> DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	No known significant effects or critical hazards. No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: <input checked="" type="checkbox"/> DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not applicable. Not applicable. P273 - Avoid release to the environment. Not applicable.
<b>Response</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Storage</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: <input checked="" type="checkbox"/> DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate  DNA 7500 Gel Matrix	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.
<b>Hazardous ingredients</b>	: <input checked="" type="checkbox"/> DNA Dye Concentrate	Not applicable.
<b>Supplemental label elements</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not applicable. Not applicable. Not applicable. Not applicable.
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not applicable. Not applicable. Not applicable. Not applicable.

### 2.3 Other hazards

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**Other hazards which do not result in classification** :

DNA 7500 Ladder	None known.
DNA 7500 Marker	None known.
DNA Dye Concentrate	None known.
DNA 7500 Gel Matrix	None known.

## SECTION 3: Composition/information on ingredients

**3.1 Substances** :

DNA 7500 Ladder	Mixture
DNA 7500 Marker	Mixture
DNA Dye Concentrate	Mixture
DNA 7500 Gel Matrix	Mixture



Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
<b>DNA Dye Concentrate</b> Dimethyl sulfoxide	EC: 200-664-3 CAS: 67-68-5	≥90	Aquatic Chronic 3, H412  <b>See Section 16 for the full text of the H statements declared above.</b>	[1]

### 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

<b>Eye contact</b>	:	 DNA 7500 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.
		DNA 7500 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.
		DNA Dye Concentrate	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
		DNA 7500 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.
<b>Inhalation</b>	:	 DNA 7500 Ladder	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
		DNA 7500 Marker	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.
		DNA Dye Concentrate	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately.

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		Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	DNA 7500 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.
<b>Skin contact</b>	: DNA 7500 Ladder	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA 7500 Marker	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	DNA Dye Concentrate	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	DNA 7500 Gel Matrix	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: DNA 7500 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.
	DNA 7500 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.
	DNA Dye Concentrate	Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	DNA 7500 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.
<b>Protection of first-aiders</b>	: DNA 7500 Ladder	No action shall be taken involving any personal risk or without suitable training.
	DNA 7500 Marker	No action shall be taken involving any personal risk or without suitable training.
	DNA Dye Concentrate	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
	DNA 7500 Gel Matrix	No action shall be taken involving any personal risk or

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## SECTION 4: First aid measures

without suitable training.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Inhalation</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Skin contact</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Ingestion</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.

#### Over-exposure signs/symptoms

<b>Eye contact</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	No specific data.
		DNA Dye Concentrate	No specific data.
		DNA 7500 Gel Matrix	No specific data.
<b>Inhalation</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	No specific data.
		DNA Dye Concentrate	No specific data.
		DNA 7500 Gel Matrix	No specific data.
<b>Skin contact</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	No specific data.
		DNA Dye Concentrate	No specific data.
		DNA 7500 Gel Matrix	No specific data.
<b>Ingestion</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	No specific data.
		DNA Dye Concentrate	No specific data.
		DNA 7500 Gel Matrix	No specific data.

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

<b>Notes to physician</b>	:	DNA 7500 Ladder	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA 7500 Marker	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.
		DNA Dye Concentrate	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
		DNA 7500 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.
<b>Specific treatments</b>	:	DNA 7500 Ladder	No specific treatment.
		DNA 7500 Marker	No specific treatment.
		DNA Dye Concentrate	No specific treatment.
		DNA 7500 Gel Matrix	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	:	DNA 7500 Ladder	Use an extinguishing agent suitable for the surrounding fire.
		DNA 7500 Marker	Use an extinguishing agent suitable for the surrounding fire.
		DNA Dye Concentrate	Use an extinguishing agent suitable for the surrounding fire.
		DNA 7500 Gel Matrix	Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	:	DNA 7500 Ladder	None known.
		DNA 7500 Marker	None known.
		DNA Dye Concentrate	None known.
		DNA 7500 Gel Matrix	None known.

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

<b>Hazards from the substance or mixture</b>	:	<input checked="" type="checkbox"/> DNA 7500 Ladder	In a fire or if heated, a pressure increase will occur and the container may burst.
		DNA 7500 Marker	In a fire or if heated, a pressure increase will occur and the container may burst.
		DNA Dye Concentrate	In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
		DNA 7500 Gel Matrix	In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides
		DNA Dye Concentrate	Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides
		DNA 7500 Gel Matrix	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

### 5.3 Advice for firefighters

<b>Special precautions for fire-fighters</b>	:	DNA 7500 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.
		DNA 7500 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.
		DNA 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.
		DNA 7500 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.
<b>Special protective equipment for fire-fighters</b>	:	DNA 7500 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.
		DNA 7500 Marker	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

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DNA Dye Concentrate	face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
DNA 7500 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.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	: DNA 7500 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.
	DNA 7500 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.
	DNA 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	DNA 7500 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.
<b>For emergency responders</b>	: DNA 7500 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".
	DNA 7500 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".
	DNA 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".
	DNA 7500 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".

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## SECTION 6: Accidental release measures

<b>6.2 Environmental precautions</b>	: DNA 7500 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).
	DNA 7500 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).
	DNA 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). Water polluting material. May be harmful to the environment if released in large quantities.
	DNA 7500 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).

### 6.3 Methods and material for containment and cleaning up

<b>Methods for cleaning up</b>	: DNA 7500 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.
	DNA 7500 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.
	DNA 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.
	DNA 7500 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.

<b>6.4 Reference to other sections</b>	: 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.
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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: DNA 7500 Ladder	Put on appropriate personal protective equipment (see Section 8).
	DNA 7500 Marker	Put on appropriate personal protective equipment (see Section 8).
	DNA Dye Concentrate	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
	DNA 7500 Gel Matrix	Put on appropriate personal protective equipment (see

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## SECTION 7: Handling and storage

### Advice on general occupational hygiene

: DNA 7500 Ladder

Section 8).

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.

DNA 7500 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.

DNA 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.

DNA 7500 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.

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

#### Storage

: DNA 7500 Ladder

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.

DNA 7500 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.

DNA 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.

DNA 7500 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

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and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

<b>Recommendations</b>	:	DNA 7500 Ladder	Industrial applications, Professional applications.
		DNA 7500 Marker	Industrial applications, Professional applications.
		DNA Dye Concentrate	Industrial applications, Professional applications.
		DNA 7500 Gel Matrix	Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	:	DNA 7500 Ladder	Not applicable.
		DNA 7500 Marker	Not applicable.
		DNA Dye Concentrate	Not applicable.
		DNA 7500 Gel Matrix	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

**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

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## SECTION 8: Exposure controls/personal 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

<b>Physical state</b>	: DNA 7500 Ladder	Liquid.
	: DNA 7500 Marker	Liquid.
	: DNA Dye Concentrate	Liquid.
	: DNA 7500 Gel Matrix	Liquid.
<b>Colour</b>	: DNA 7500 Ladder	Not available.
	: DNA 7500 Marker	Not available.
	: DNA Dye Concentrate	Blue.
	: DNA 7500 Gel Matrix	Not available.
<b>Odour</b>	: DNA 7500 Ladder	Not available.
	: DNA 7500 Marker	Not available.
	: DNA Dye Concentrate	Not available.
	: DNA 7500 Gel Matrix	Not available.
<b>Odour threshold</b>	: DNA 7500 Ladder	Not available.
	: DNA 7500 Marker	Not available.
	: DNA Dye Concentrate	Not available.
	: DNA 7500 Gel Matrix	Not available.
<b>pH</b>	: DNA 7500 Ladder	Not available.
	: DNA 7500 Marker	Not available.
	: DNA Dye Concentrate	Not available.
	: DNA 7500 Gel Matrix	Not available.
<b>Melting point/freezing point</b>	: DNA 7500 Ladder	0°C
	: DNA 7500 Marker	0°C
	: DNA Dye Concentrate	18.5°C
	: DNA 7500 Gel Matrix	Not available.
<b>Initial boiling point and boiling range</b>	: DNA 7500 Ladder	100°C
	: DNA 7500 Marker	100°C
	: DNA Dye Concentrate	189°C
	: DNA 7500 Gel Matrix	Not available.
<b>Flash point</b>	: DNA 7500 Ladder	Not available.
	: DNA 7500 Marker	Not available.
	: DNA Dye Concentrate	Closed cup: 87°C
	: DNA 7500 Gel Matrix	Not available.
<b>Evaporation rate</b>	: DNA 7500 Ladder	Not available.
	: DNA 7500 Marker	Not available.
	: DNA Dye Concentrate	Not available.
	: DNA 7500 Gel Matrix	Not available.

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## SECTION 9: Physical and chemical properties

<b>Flammability (solid, gas)</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not applicable. Not applicable. Not applicable. Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate  DNA 7500 Gel Matrix	Not available. Not available. Lower: 2.6% Upper: 42% Not available.
<b>Vapour pressure</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.
<b>Vapour density</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. 2.7 [Air = 1] Not available.
<b>Relative density</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.
<b>Solubility(ies)</b>	: DNA 7500 Ladder  DNA 7500 Marker  DNA Dye Concentrate  DNA 7500 Gel Matrix	Easily 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. Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.
<b>Auto-ignition temperature</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.
<b>Decomposition temperature</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.
<b>Viscosity</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.
<b>Explosive properties</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.
<b>Oxidising properties</b>	: DNA 7500 Ladder DNA 7500 Marker DNA Dye Concentrate DNA 7500 Gel Matrix	Not available. Not available. Not available. Not available.

### 9.2 Other information

No additional information.

## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	: DNA 7500 Ladder	No specific test data related to reactivity available for this product or its ingredients.
	DNA 7500 Marker	No specific test data related to reactivity available for this product or its ingredients.
	DNA Dye Concentrate	No specific test data related to reactivity available for this product or its ingredients.
	DNA 7500 Gel Matrix	No specific test data related to reactivity available for this product or its ingredients.
<b>10.2 Chemical stability</b>	: DNA 7500 Ladder	The product is stable.
	DNA 7500 Marker	The product is stable.
	DNA Dye Concentrate	The product is stable.
	DNA 7500 Gel Matrix	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: DNA 7500 Ladder	Under normal conditions of storage and use, hazardous reactions will not occur.
	DNA 7500 Marker	Under normal conditions of storage and use, hazardous reactions will not occur.
	DNA Dye Concentrate	Under normal conditions of storage and use, hazardous reactions will not occur.
	DNA 7500 Gel Matrix	Under normal conditions of storage and use, hazardous reactions will not occur.
<b>10.4 Conditions to avoid</b>	: DNA 7500 Ladder	No specific data.
	DNA 7500 Marker	No specific data.
	DNA Dye Concentrate	No specific data.
	DNA 7500 Gel Matrix	No specific data.
<b>10.5 Incompatible materials</b>	: DNA 7500 Ladder	May react or be incompatible with oxidising materials.
	DNA 7500 Marker	May react or be incompatible with oxidising materials.
	DNA Dye Concentrate	May react or be incompatible with oxidising materials.
	DNA 7500 Gel Matrix	May react or be incompatible with oxidising materials.
<b>10.6 Hazardous decomposition products</b>	: DNA 7500 Ladder	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA 7500 Marker	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA Dye Concentrate	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	DNA 7500 Gel Matrix	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

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

#### Acute toxicity estimates

Not available.

#### Irritation/Corrosion

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## SECTION 11: Toxicological information

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

### Sensitiser

**Conclusion/Summary** : Not available.

### Mutagenicity

**Conclusion/Summary** : Not available.

### Carcinogenicity

**Conclusion/Summary** : Not available.

### Reproductive toxicity

**Conclusion/Summary** : Not available.

### Teratogenicity

**Conclusion/Summary** : Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

### Information on likely routes of exposure

: DNA 7500 Ladder Not available.  
 DNA 7500 Marker Not available.  
 DNA Dye Concentrate Routes of entry anticipated: Oral, Dermal, Inhalation.  
 DNA 7500 Gel Matrix Not available.

### Potential acute health effects

**Inhalation** : DNA 7500 Ladder No known significant effects or critical hazards.  
 DNA 7500 Marker No known significant effects or critical hazards.  
 DNA Dye Concentrate No known significant effects or critical hazards.  
 DNA 7500 Gel Matrix No known significant effects or critical hazards.

**Ingestion** : DNA 7500 Ladder No known significant effects or critical hazards.  
 DNA 7500 Marker No known significant effects or critical hazards.  
 DNA Dye Concentrate No known significant effects or critical hazards.  
 DNA 7500 Gel Matrix No known significant effects or critical hazards.

**Skin contact** : DNA 7500 Ladder No known significant effects or critical hazards.  
 DNA 7500 Marker No known significant effects or critical hazards.  
 DNA Dye Concentrate No known significant effects or critical hazards.  
 DNA 7500 Gel Matrix No known significant effects or critical hazards.

**Eye contact** : DNA 7500 Ladder No known significant effects or critical hazards.  
 DNA 7500 Marker No known significant effects or critical hazards.  
 DNA Dye Concentrate No known significant effects or critical hazards.  
 DNA 7500 Gel Matrix No known significant effects or critical hazards.

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

**Inhalation** : DNA 7500 Ladder No specific data.  
 DNA 7500 Marker No specific data.  
 DNA Dye Concentrate No specific data.  
 DNA 7500 Gel Matrix No specific data.

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## SECTION 11: Toxicological information

<b>Ingestion</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	No specific data.
		DNA Dye Concentrate	No specific data.
		DNA 7500 Gel Matrix	No specific data.
<b>Skin contact</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	No specific data.
		DNA Dye Concentrate	No specific data.
		DNA 7500 Gel Matrix	No specific data.
<b>Eye contact</b>	:	DNA 7500 Ladder	No specific data.
		DNA 7500 Marker	No specific data.
		DNA Dye Concentrate	No specific data.
		DNA 7500 Gel Matrix	No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Mutagenicity</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Teratogenicity</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Developmental effects</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.
<b>Fertility effects</b>	:	DNA 7500 Ladder	No known significant effects or critical hazards.
		DNA 7500 Marker	No known significant effects or critical hazards.
		DNA Dye Concentrate	No known significant effects or critical hazards.
		DNA 7500 Gel Matrix	No known significant effects or critical hazards.

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## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
DNA Dye Concentrate Dimethyl sulfoxide	Acute EC50 18299 µg/l Marine water	Algae - Nitzschia pungens	96 hours
	Acute LC50 37.437 mg/l Marine water	Crustaceans - Artemia sp.	48 hours
	Acute LC50 25000 ppm Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 34000000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
	Chronic NOEC 3323 µg/l Marine water	Algae - Nitzschia pungens	96 hours

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
DNA Dye Concentrate Dimethyl sulfoxide	-1.35	3.16	low

### 12.4 Mobility in soil

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

Mobility : Not available.

### 12.5 Results of PBT and vPvB assessment

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.



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## 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.

<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	<b>:</b> DNA 7500 Ladder	Not applicable.
	DNA 7500 Marker	Not applicable.
	DNA Dye Concentrate	Not applicable.
	DNA 7500 Gel Matrix	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.

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## SECTION 15: Regulatory information

Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: <b>Japan inventory (ENCS)</b> : Not determined. <b>Japan inventory (ISHL)</b> : 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.

## 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
 DNA Dye Concentrate Aquatic Chronic 3, H412	Calculation method

### Full text of abbreviated H statements

 DNA Dye Concentrate H412	Harmful to aquatic life with long lasting effects.
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### Full text of classifications [CLP/GHS]

 DNA Dye Concentrate Aquatic Chronic 3, H412	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
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**Date of issue/ Date of revision** : 31/07/2018

**Date of previous issue** : 27/10/2017

**Version** : 2

### Notice to reader

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