# SAFETY DATA SHEET





#### STARGARDT MASTR

### **Section 1. Identification**

**Product identifier** : STARGARDT MASTR

Part No. (Chemical Kit) : MR-0171.024

Part No. **A**R 1 I-0799

PCR Mix Plex 1 I-0661 PCR Mix Plex 2 I-0662 PCR Mix Plex 3 I-0663 PCR Mix Plex 4 I-0664 Taq DNA Polymerase I-1014

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

Analytical reagent.

For Research Use Only. Not for use in diagnostic procedures.

**A**R 1 1.5 ml PCR Mix Plex 1 0.240 ml PCR Mix Plex 2 0.240 ml PCR Mix Plex 3 0.240 ml PCR Mix Plex 4 0.240 ml Taq DNA Polymerase 0.012 ml

Supplier/Manufacturer : Agilent Technologies Belgium

> De Kleetlaan 5 bus 9 1831 Diegem Belgium

**Emergency telephone** number (with hours of operation)

: CHEMTREC®: +(61)-290372994

# Section 2. Hazard(s) identification

#### Classification of the substance or mixture

Not classified.

PCR Mix Plex 4 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: 30 - 60%

Percentage of the mixture consisting of ingredient(s)

of unknown oral toxicity: 1 - 10%

Tag DNA Polymerase Percentage of the mixture consisting of ingredient(s)

of unknown inhalation toxicity: 10 - 30%

PCR Mix Plex 4 Percentage of the mixture consisting of ingredient(s)

of unknown hazards to the aquatic environment: 4.5%

**GHS** label elements

Signal word **A**R 1 No signal word.

PCR Mix Plex 1 No signal word. PCR Mix Plex 2 No signal word. PCR Mix Plex 3 No signal word. PCR Mix Plex 4 No signal word. Taq DNA Polymerase No signal word.

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### Section 2. Hazard(s) identification

**Hazard statements**: RR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : AR 1 Not applicable.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Taq DNA Polymerase
Not applicable.
Not applicable.
Not applicable.

Response : AR 1 Not applicable.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Taq DNA Polymerase

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

Storage : AR 1 Not applicable.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Taq DNA Polymerase
RR 1
PCR Mix Plex 1
Not applicable.
Not applicable.
Not applicable.
Not applicable.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Tag DNA Polymerase
Not applicable.
Not applicable.
Not applicable.

Supplemental label elements

**Disposal** 

Additional warning : AR 1 Not applicable.

phrases PCR Mix Plex 1 Not applicable.

PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.
Not applicable.

Other hazards which do not : R 1 None known. result in classification PCR Mix Plex 1 None known.

PCR Mix Plex 1 None known.
PCR Mix Plex 2 None known.
PCR Mix Plex 3 None known.
PCR Mix Plex 4 None known.
Tag DNA Polymerase None known.

# Section 3. Composition and ingredient information

Substance/mixture : AR 1 Mixture

PCR Mix Plex 1 Mixture
PCR Mix Plex 2 Mixture
PCR Mix Plex 3 Mixture
PCR Mix Plex 4 Mixture
Taq DNA Polymerase Mixture

#### **CAS** number/other identifiers

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# Section 3. Composition and ingredient information

Ingredient name	% (w/w)	CAS number
▼aq DNA Polymerase Glycerol	≥30 - ≤60	56-81-5

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

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

Occupational exposu	re limits, if available, are listed in S	ection 8.
Section 4. Fir	st aid measures	
Description of neces	sary first aid measures	
Eye contact	: <b>A</b> R 1	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.
	PCR Mix Plex 1	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.
	PCR Mix Plex 2	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.
	PCR Mix Plex 3	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.
	PCR Mix Plex 4	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.
	Taq DNA Polymerase	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	: <b>A</b> R 1	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	PCR Mix Plex 1	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.
	PCR Mix Plex 2	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.
	PCR Mix Plex 3	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.
	PCR Mix Plex 4	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

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decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

### Section 4. First aid measures

under medical surveillance for 48 hours. Taq DNA Polymerase Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Skin contact : AR 1 Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. PCR Mix Plex 1

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. PCR Mix Plex 2

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. PCR Mix Plex 3

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Flush contaminated skin with plenty of water. PCR Mix Plex 4

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur. Flush contaminated skin with plenty of water.

Tag DNA Polymerase

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

**A**R 1 Wash out mouth with water. Remove victim to fresh Ingestion

> 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.

PCR Mix Plex 1 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.

PCR Mix Plex 2 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.

Wash out mouth with water. Remove victim to fresh PCR Mix Plex 3

> 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.

PCR Mix Plex 4 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.

Wash out mouth with water. Remove victim to fresh Taq DNA Polymerase 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

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### Section 4. First aid measures

attention if symptoms occur.

#### Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact : AR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

l aq DNA Polymerase — No known significant effects or critical hazards.

Inhalation : KR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

Skin contact: AR 1 No known significant effects or critical hazards.

PCR Mix Plex 1 No known significant effects or critical hazards.

PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

Ingestion : KR 1 No known significant effects or critical hazards.

PCR Mix Plex 1

PCR Mix Plex 2

PCR Mix Plex 2

PCR Mix Plex 3

PCR Mix Plex 3

PCR Mix Plex 3

PCR Mix Plex 4

No known significant effects or critical hazards.

Over-exposure signs/symptoms

**Eye contact**: RR 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No specific data.

Inhalation : AR 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Taq DNA Polymerase
No specific data.
No specific data.
No specific data.

Skin contact : AR 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 4
No specific data.

Ingestion : AR 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No specific data.

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

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### Section 4. First aid measures

Notes to physician :	AR 1	Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

PCR Mix Plex 1 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.

PCR Mix Plex 2 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.

PCR Mix Plex 3 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.

PCR Mix Plex 4 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.

Taq DNA Polymerase Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

**A**R 1 Specific treatments No specific treatment.

Tag DNA Polymerase

PCR Mix Plex 1 No specific treatment. PCR Mix Plex 2 No specific treatment. PCR Mix Plex 3 No specific treatment. PCR Mix Plex 4 No specific treatment. Taq DNA Polymerase No specific treatment.

**Protection of first-aiders** : AR 1 No action shall be taken involving any personal risk

or without suitable training.

PCR Mix Plex 1 No action shall be taken involving any personal risk

or without suitable training.

PCR Mix Plex 2 No action shall be taken involving any personal risk

or without suitable training.

PCR Mix Plex 3 No action shall be taken involving any personal risk or without suitable training.

No action shall be taken involving any personal risk

PCR Mix Plex 4 or without suitable training.

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

See toxicological information (Section 11)

### Section 5. Firefighting measures

### **Extinguishing** media

Suitable extinguishing media

: AR 1 Use an extinguishing agent suitable for the

surrounding fire.

PCR Mix Plex 1 Use an extinguishing agent suitable for the

surrounding fire.

PCR Mix Plex 2 Use an extinguishing agent suitable for the

surrounding fire.

PCR Mix Plex 3 Use an extinguishing agent suitable for the

surrounding fire.

PCR Mix Plex 4 Use an extinguishing agent suitable for the

surrounding fire.

Taq DNA Polymerase Use an extinguishing agent suitable for the

surrounding fire.

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### Section 5. Firefighting measures

Unsuitable extinguishing media

AR 1 None known.
PCR Mix Plex 1 None known.
PCR Mix Plex 2 None known.
PCR Mix Plex 3 None known.
PCR Mix Plex 4 None known.
Taq DNA Polymerase None known.

Specific hazards arising from the chemical

: R 1 In a fire or if heated, a pressure increase will occur

and the container may burst.

PCR Mix Plex 1 In a fire or if heated, a pressure increase will occur

and the container may burst.

PCR Mix Plex 2 In a fire or if heated, a pressure increase will occur

and the container may burst.

PCR Mix Plex 3 In a fire or if heated, a pressure increase will occur

and the container may burst.

PCR Mix Plex 4 In a fire or if heated, a pressure increase will occur

and the container may burst.

Taq DNA Polymerase In a fire or if heated, a pressure increase will occur

and the container may burst.

Hazardous thermal decomposition products

AR 1

PCR Mix Plex 1 Decomposition products may include the following

No specific data.

materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

PCR Mix Plex 2 Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

PCR Mix Plex 3 Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides phosphorus oxides

PCR Mix Plex 4 Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides

Taq DNA Polymerase Decomposition products may include the following

materials: carbon dioxide carbon monoxide

Special protective actions for fire-fighters

: R 1 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.

PCR Mix Plex 1 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.

PCR Mix Plex 2 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.

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### Section 5. Firefighting measures

PCR Mix Plex 3 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.

PCR Mix Plex 4 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.

Taq DNA Polymerase 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

: AR 1 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

PCR Mix Plex 1 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

PCR Mix Plex 2 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

PCR Mix Plex 3 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

PCR Mix Plex 4 Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Tag DNA Polymerase Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel

: KR 1 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.

PCR Mix Plex 1 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.

PCR Mix Plex 2 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.

PCR Mix Plex 3 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

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### Section 6. Accidental release measures

protective equipment.

PCR Mix Plex 4 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.

Taq DNA Polymerase

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 : R 1 If specialised clothing is required to deal with the

PCR Mix Plex 1

PCR Mix Plex 2

PCR Mix Plex 3

PCR Mix Plex 4

Taq DNA Polymerase

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

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If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the

spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : KR 1 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).

PCR Mix Plex 1 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).

PCR Mix Plex 2 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).

PCR Mix Plex 3 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).

PCR Mix Plex 4 Avoid dispersal of spilt material and runoff and

contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

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### Section 6. Accidental release measures

Tag DNA Polymerase

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).

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

Methods for cleaning up : R 1

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.

PCR Mix Plex 1

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.

PCR Mix Plex 2

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.

PCR Mix Plex 3

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.

PCR Mix Plex 4

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.

Taq DNA Polymerase

PCR Mix Plex 3

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

Precautions for safe handling

Protective measures

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

PCR Mix Plex 1 Put on appropriate personal protective equipment

(see Section 8).

PCR Mix Plex 2 Put on appropriate personal protective equipment (see Section 8).

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

PCR Mix Plex 4 Put on appropriate personal protective equipment

(see Section 8).

Tag DNA Polymerase Put on appropriate personal protective equipment

(see Section 8).

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# Section 7. Handling and storage

Advice on general occupational hygiene

**A**R 1

PCR Mix Plex 1

PCR Mix Plex 2

PCR Mix Plex 3

PCR Mix Plex 4

Tag DNA Polymerase

Conditions for safe storage, :  $\angle RR$  1 including any

including any incompatibilities

PCR Mix Plex 1

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid

additional information on hygiene measures.

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### Section 7. Handling and storage

PCR Mix Plex 2

PCR Mix Plex 3

PCR Mix Plex 4

incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

environmental contamination. See Section 10 for

incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a

dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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.

# Section 8. Exposure controls and personal protection

Taq DNA Polymerase

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
<b>Faq DNA Polymerase</b> Glycerol	Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m³ 8 hours.

Appropriate engineering controls

 Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

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# Section 8. Exposure controls and personal protection

# **Environmental exposure** controls

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

#### **Individual protection measures**

**Hygiene measures** 

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

Eye/face protection

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

Skin protection

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

### Section 9. Physical and chemical properties

#### **Appearance**

Physical state : AR 1 Liquid.
PCR Mix Plex 1 Liquid.
Liquid.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Liquid.

Tag DNA Polymerase Liquid. [Clear. / solution]

Colour : AR 1 Not available.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Taq DNA Polymerase
Not available.
Colourless.

Odour : AR 1 Not available.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Taq DNA Polymerase

AR 1

Not available.
Not available.
Not available.
Not available.

Odour threshold : AR 1

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Not available.
Not available.
Not available.
Not available.

pH :

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# Section 9. Physical and chemical properties

	AR 1	Not available.
	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available.
	Taq DNA Polymerase	Not available.
Molting point	<b>A</b> R 1	0°C (32°F)
Melting point :	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available.
	Taq DNA Polymerase	Not available.
Dellinguation		
Boiling point :	PCR Mix Plex 1	100°C (212°F) Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available.
	Taq DNA Polymerase	Not available.
Flash point :	AR 1	Not available.
	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available. Not available.
	Taq DNA Polymerase	
Evaporation rate :	<b>y</b>	Not available.
	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available.
	Taq DNA Polymerase	Not available.
Flammability (solid, gas) :	V	Not applicable.
	PCR Mix Plex 1	Not applicable.
	PCR Mix Plex 2	Not applicable.
	PCR Mix Plex 3	Not applicable.
	PCR Mix Plex 4	Not applicable.
	Taq DNA Polymerase	Not applicable.
Lower and upper explosive :	/	Not available.
(flammable) limits	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available.
	Taq DNA Polymerase	Not available.
Vapour pressure :	AR 1	Not available.
	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available. Not available.
	Taq DNA Polymerase	
Vapour density :	AR 1	Not available.
	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available.
	Taq DNA Polymerase	Not available.
Relative density :	AR 1	Not available.
	PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
	PCR Mix Plex 3	Not available.
	PCR Mix Plex 4	Not available.
	Taq DNA Polymerase	Not available.

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### Section 9. Physical and chemical properties

Easily soluble in the following materials: cold water and hot water. PCR Mix Plex 1 Not available. PCR Mix Plex 2 Not available. PCR Mix Plex 3 Not available. PCR Mix Plex 4 Not available. Taq DNA Polymerase Not available. AR 1 Partition coefficient: n-Not available. PCR Mix Plex 1 Not available. octanol/water PCR Mix Plex 2 Not available. PCR Mix Plex 3 Not available. PCR Mix Plex 4 Not available. Taq DNA Polymerase Not available. **A**R 1 **Auto-ignition temperature** Not available. PCR Mix Plex 1 Not available. PCR Mix Plex 2 Not available. PCR Mix Plex 3 Not available. PCR Mix Plex 4 Not available. Tag DNA Polymerase Not available. Not available. **Decomposition temperature** PCR Mix Plex 1 Not available. PCR Mix Plex 2 Not available. PCR Mix Plex 3 Not available. PCR Mix Plex 4 Not available. Taq DNA Polymerase Not available. **A**R 1 Not available. **Viscosity** PCR Mix Plex 1 Not available. PCR Mix Plex 2 Not available. PCR Mix Plex 3 Not available. PCR Mix Plex 4 Not available. Taq DNA Polymerase Not available.

### Section 10. Stability and reactivity

Reactivity	: <b>A</b> R 1	No specific test data related to rea	activity available for

this product or its ingredients.

PCR Mix Plex 1 No specific test data related to reactivity available for

this product or its ingredients.

PCR Mix Plex 2 No specific test data related to reactivity available for

this product or its ingredients.

PCR Mix Plex 3 No specific test data related to reactivity available for

this product or its ingredients.

PCR Mix Plex 4 No specific test data related to reactivity available for

this product or its ingredients.

Tag DNA Polymerase No specific test data related to reactivity available for

this product or its ingredients.

**Chemical stability**: **K**R 1 The product is stable.

PCR Mix Plex 1 The product is stable.
PCR Mix Plex 2 The product is stable.
PCR Mix Plex 3 The product is stable.
PCR Mix Plex 4 The product is stable.
Tag DNA Polymerase The product is stable.

Possibility of hazardous

reactions

: AR 1 Under normal conditions of storage and use,

hazardous reactions will not occur.

PCR Mix Plex 1 Under normal conditions of storage and use,

hazardous reactions will not occur.

PCR Mix Plex 2 Under normal conditions of storage and use,

hazardous reactions will not occur.

PCR Mix Plex 3 Under normal conditions of storage and use,

hazardous reactions will not occur.

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### Section 10. Stability and reactivity

PCR Mix Plex 4 Under normal conditions of storage and use,

hazardous reactions will not occur.

hazardous reactions will not occur.

Conditions to avoid : R 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No specific data.

Incompatible materials : AR 1 May react or be incompatible with oxidising materials.

PCR Mix Plex 1 May react or be incompatible with oxidising materials. PCR Mix Plex 2 May react or be incompatible with oxidising materials. PCR Mix Plex 3 May react or be incompatible with oxidising materials. PCR Mix Plex 4 May react or be incompatible with oxidising materials. Taq DNA Polymerase May react or be incompatible with oxidising materials.

Hazardous decomposition : RR 1

hazardous decomposition products should not be

produced.

Under normal conditions of storage and use,

PCR Mix Plex 1 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

PCR Mix Plex 2 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

PCR Mix Plex 3 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

PCR Mix Plex 4 Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Tag DNA Polymerase Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

products

Product/ingredient name	Result	Species	Dose	Exposure
<b>r</b> aq DNA Polymerase				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-

#### **Irritation/Corrosion**

Result	Species	Score	Exposure	Observation
Eyes - Mild irritant	Rabbit			-
0	D 11.11		•	
Skin - Milia Irritant	Rappit			-
		Eyes - Mild irritant Rabbit	Eyes - Mild irritant Rabbit - Skin - Mild irritant Rabbit -	Eyes - Mild irritant Rabbit - 24 hours 500 milligrams

#### **Sensitisation**

Not available.

#### **Mutagenicity**

Not available.

#### Carcinogenicity

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# Section 11. Toxicological information

Not available.

#### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on likely routes

of exposure

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Not available.
Not available.
Not available.

Tag DNA Polymerase Routes of entry anticipated: Oral, Dermal, Inhalation.

Potential acute health effects

Eye contact : AR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

Inhalation : RR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

Skin contact: RR 1 No known significant effects or critical hazards.

PCR Mix Plex 1

PCR Mix Plex 2

PCR Mix Plex 2

PCR Mix Plex 3

PCR Mix Plex 3

PCR Mix Plex 3

PCR Mix Plex 4

No known significant effects or critical hazards.

Ingestion : AR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

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

**Eye contact**: AR 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No specific data.

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## **Section 11. Toxicological information**

Inhalation : 🗚 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
Taq DNA Polymerase
No specific data.
No specific data.
No specific data.

Skin contact : AR 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No specific data.

Ingestion : AR 1 No specific data.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No specific data.

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

**Short term exposure** 

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

General: No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

Carcinogenicity: RR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

Mutagenicity: AR 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

**Teratogenicity**: R 1 No known significant effects or critical hazards.

PCR Mix Plex 1
PCR Mix Plex 2
PCR Mix Plex 3
PCR Mix Plex 3
PCR Mix Plex 4
No known significant effects or critical hazards.

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# Section 11. Toxicological information

Developmental effects	: <b>A</b> R 1	No known significant effects or critical hazards.
•	PCR Mix Plex 1	No known significant effects or critical hazards.
	PCR Mix Plex 2	No known significant effects or critical hazards.
	PCR Mix Plex 3	No known significant effects or critical hazards.
	PCR Mix Plex 4	No known significant effects or critical hazards.
	Taq DNA Polymerase	No known significant effects or critical hazards.
Fertility effects	: <b>A</b> R 1	No known significant effects or critical hazards.
-	PCR Mix Plex 1	No known significant effects or critical hazards.
	PCR Mix Plex 2	No known significant effects or critical hazards.
	PCR Mix Plex 3	No known significant effects or critical hazards.
	PCR Mix Plex 4	No known significant effects or critical hazards.
	Taq DNA Polymerase	No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

**Acute toxicity estimates** 

Not available.

### **Section 12. Ecological information**

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
<b>F</b> aq DNA Polymerase			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

#### Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
1 3	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>r</b> aq DNA Polymerase			
Glycerol	-1.76	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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

## Section 13. Disposal considerations

#### **Disposal methods**

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

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# Section 13. Disposal considerations

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**

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

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

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

the event of an accident or spillage.

Transport in bulk according : Not available.

to Annex II of Marpol and

the IBC Code

## Section 15. Regulatory information

#### **Standard Uniform Schedule of Medicine and Poisons**

Not regulated.

#### Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

#### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol (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.

Not determined. Malaysia **New Zealand** : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. : Not determined. **Taiwan Thailand** : Not determined. : Not determined. **Turkey United States** : Not determined. **Viet Nam** : Not determined.

# Section 16. Any other relevant information

#### **History**

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Key to abbreviations

: ADG = Australian Dangerous Goods ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) NOHSC = National Occupational Health and Safety Commission SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

References : Not available.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

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