

# SAFETY DATA SHEET

CMT 1A MAQ

## Section 1. Identification

### 1.1 Product identifier

**Product name** : CMT 1A MAQ  
**Part No. (Chemical Kit)** : MQ-0010.100  
**Part No.** : PCR Mix I-1000  
 Taq DNA Polymerase I-1001  
**Validation date** : 10/6/2017

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

**Material uses** : Analytical reagent.  
 For Research Use Only. Not for use in diagnostic procedures.  
 0.515 ml  
 PCR Mix 4 x 0.125 ml  
 Taq DNA Polymerase 0.015 ml

### 1.3 Details of the supplier of the safety data sheet

**Supplier/Manufacturer** : Agilent Technologies Belgium  
 De Kleetlaan 5 bus 9  
 1831 Diegem  
 Belgium

### 1.4 Emergency telephone number

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

## Section 2. Hazards identification

### 2.1 Classification of the substance or mixture

**OSHA/HCS status** : PCR Mix  
 While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.  
 Taq DNA Polymerase  
 This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

### Classification of the substance or mixture

**Taq DNA Polymerase**  
 H320 EYE IRRITATION - Category 2B

**Ingredients of unknown toxicity** : Taq DNA Polymerase  
 Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: 10 - 30%

### 2.2 GHS label elements

**Signal word** : PCR Mix No signal word.  
 Taq DNA Polymerase Warning  
**Hazard statements** : PCR Mix No known significant effects or critical hazards.  
 Taq DNA Polymerase H320 - Causes eye irritation.  
**Precautionary statements**  
**Prevention** : PCR Mix Not applicable.  
 Taq DNA Polymerase P264 - Wash hands thoroughly after handling.

## Section 2. Hazards identification

|                                    |                                 |  |
|------------------------------------|---------------------------------|--|
| <b>Response</b>                    | : PCR Mix<br>Taq DNA Polymerase | Not applicable.<br>P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br>P337 + P313 - If eye irritation persists: Get medical attention. |
| <b>Storage</b>                     | : PCR Mix<br>Taq DNA Polymerase | Not applicable.<br>Not applicable.   |
| <b>Disposal</b>                    | : PCR Mix<br>Taq DNA Polymerase | Not applicable.<br>Not applicable.   |
| <b>Supplemental label elements</b> | : PCR Mix<br>Taq DNA Polymerase | None known.<br>None known.   |

### 2.3 Other hazards

|   |                                 |                            |
|---|---------------------------------|----------------------------|
| <b>Hazards not otherwise classified</b> | : PCR Mix<br>Taq DNA Polymerase | None known.<br>None known. |
|---|---------------------------------|----------------------------|

## Section 3. Composition/information on ingredients

|                          |                                 |                    |
|--------------------------|---------------------------------|--------------------|
| <b>Substance/mixture</b> | : PCR Mix<br>Taq DNA Polymerase | Mixture<br>Mixture |
|--------------------------|---------------------------------|--------------------|

| Ingredient name                | %         | CAS number |
|--------------------------------|-----------|------------|
| Taq DNA Polymerase<br>Glycerol | ≥25 - ≤50 | 56-81-5    |

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

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

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

## Section 4. First aid measures

### 4.1 Description of necessary first aid measures

|                    |                                     |   |
|--------------------|-------------------------------------|---|
| <b>Eye contact</b> | : PCR Mix<br><br>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.<br>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. If irritation persists, get medical attention.  |
| <b>Inhalation</b>  | : PCR Mix<br><br>Taq DNA Polymerase | 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.<br>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 |

## Section 4. First aid measures

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. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

**Skin contact** : PCR Mix  
Taq DNA Polymerase

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. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

**Ingestion** : PCR Mix  
Taq DNA Polymerase

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 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.

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

#### Potential acute health effects

**Eye contact** : PCR Mix  
Taq DNA Polymerase

No known significant effects or critical hazards. Causes eye irritation.

**Inhalation** : PCR Mix  
Taq DNA Polymerase

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

**Skin contact** : PCR Mix  
Taq DNA Polymerase

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

**Ingestion** : PCR Mix  
Taq DNA Polymerase

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

#### Over-exposure signs/symptoms

**Eye contact** : PCR Mix  
Taq DNA Polymerase

No specific data. Adverse symptoms may include the following:  
irritation  
watering  
redness

## Section 4. First aid measures

|                     |                                 |  |
|---------------------|---------------------------------|--|
| <b>Inhalation</b>   | : PCR Mix<br>Taq DNA Polymerase | No specific data.<br>No specific data. |
| <b>Skin contact</b> | : PCR Mix<br>Taq DNA Polymerase | No specific data.<br>No specific data. |
| <b>Ingestion</b>    | : PCR Mix<br>Taq DNA Polymerase | No specific data.<br>No specific data. |

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

|                                   |                                     |  |
|-----------------------------------|-------------------------------------|--|
| <b>Notes to physician</b>         | : PCR Mix<br><br>Taq DNA Polymerase | 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.<br>Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| <b>Specific treatments</b>        | : PCR Mix<br>Taq DNA Polymerase     | No specific treatment.<br>No specific treatment.   |
| <b>Protection of first-aiders</b> | : PCR Mix<br><br>Taq DNA Polymerase | No action shall be taken involving any personal risk or without suitable training.<br>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.                                   |

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### 5.1 Extinguishing media

|                                       |                                     |  |
|---------------------------------------|-------------------------------------|--|
| <b>Suitable extinguishing media</b>   | : PCR Mix<br><br>Taq DNA Polymerase | Use an extinguishing agent suitable for the surrounding fire.<br>Use an extinguishing agent suitable for the surrounding fire. |
| <b>Unsuitable extinguishing media</b> | : PCR Mix<br>Taq DNA Polymerase     | None known.<br>None known.   |

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

|   |                                     |  |
|---|-------------------------------------|--|
| <b>Specific hazards arising from the chemical</b> | : PCR Mix<br><br>Taq DNA Polymerase | In a fire or if heated, a pressure increase will occur and the container may burst.<br>In a fire or if heated, a pressure increase will occur and the container may burst.   |
| <b>Hazardous thermal decomposition products</b>   | : PCR Mix<br><br>Taq DNA Polymerase | Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide<br>nitrogen oxides<br>phosphorus oxides<br>Decomposition products may include the following materials:<br>carbon dioxide<br>carbon monoxide |

### 5.3 Advice for firefighters

## Section 5. Fire-fighting measures

|   |                    |   |
|---|--------------------|---|
| <b>Special protective actions for fire-fighters</b>   | : PCR Mix          | 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. |
| <b>Special protective equipment for fire-fighters</b> | : PCR Mix          | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.                         |
|   | Taq 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

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

|                                      |                    |  |
|--------------------------------------|--------------------|--|
| <b>For non-emergency personnel</b>   | : PCR Mix          | No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.  |
|                                      | 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 spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
| <b>For emergency responders</b>      | : PCR Mix          | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
|                                      | Taq DNA Polymerase | If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".  |
| <b>6.2 Environmental precautions</b> | : PCR Mix          | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |
|                                      | Taq DNA Polymerase | Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).  |

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

## Section 6. Accidental release measures

|                                |                    |   |
|--------------------------------|--------------------|---|
| <b>Methods for cleaning up</b> | : PCR Mix          | 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 | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

## Section 7. Handling and storage

### 7.1 Precautions for safe handling

|   |                    |   |
|---|--------------------|---|
| <b>Protective measures</b>                    | : PCR Mix          | Put on appropriate personal protective equipment (see Section 8).   |
|   | Taq DNA Polymerase | Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. 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. |
| <b>Advice on general occupational hygiene</b> | : PCR Mix          | 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.                                   |
|   | Taq DNA Polymerase | 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

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

## Section 7. Handling and storage

opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

|   |                                 |  |
|---|---------------------------------|--|
| <b>Recommendations</b>                      | : PCR Mix<br>Taq DNA Polymerase | Industrial applications, Professional applications.<br>Industrial applications, Professional applications. |
| <b>Industrial sector specific solutions</b> | : PCR Mix<br>Taq DNA Polymerase | Not applicable.<br>Not applicable.   |

## Section 8. Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

| Ingredient name                | Exposure limits  |
|--------------------------------|--|
| Taq DNA Polymerase<br>Glycerol | <p><b>OSHA PEL 1989 (United States, 3/1989).</b><br/>TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 10 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> <p><b>OSHA PEL (United States, 6/2016).</b><br/>TWA: 5 mg/m<sup>3</sup> 8 hours. Form: Respirable fraction</p> <p>TWA: 15 mg/m<sup>3</sup> 8 hours. Form: Total dust</p> |

### 8.2 Exposure controls

|   |  |
|---|--|
| <b>Appropriate engineering controls</b> | : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.   |
| <b>Environmental exposure controls</b>  | : 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

|                            |   |
|----------------------------|---|
| <b>Hygiene measures</b>    | : 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. |
| <b>Eye/face protection</b> | : 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: chemical splash goggles.  |

#### Skin protection

|                        |  |
|------------------------|--|
| <b>Hand protection</b> | : 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
|------------------------|--|

## Section 8. Exposure controls/personal protection

- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

|   |                                 |  |
|---|---------------------------------|--|
| <b>Physical state</b>                               | : PCR Mix<br>Taq DNA Polymerase | Liquid.<br>Liquid. [Clear. / solution] |
| <b>Color</b>  | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Colorless.           |
| <b>Odor</b>   | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Odor threshold</b>                               | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>pH</b>   | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Melting point</b>                                | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Boiling point</b>                                | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Flash point</b>                                  | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Evaporation rate</b>                             | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Flammability (solid, gas)</b>                    | : PCR Mix<br>Taq DNA Polymerase | Not applicable.<br>Not applicable.     |
| <b>Lower and upper explosive (flammable) limits</b> | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Vapor pressure</b>                               | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Vapor density</b>                                | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Relative density</b>                             | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Solubility</b>                                   | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Partition coefficient: n-octanol/water</b>       | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Auto-ignition temperature</b>                    | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Decomposition temperature</b>                    | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |
| <b>Viscosity</b>                                    | : PCR Mix<br>Taq DNA Polymerase | Not available.<br>Not available.       |



## Section 10. Stability and reactivity

|  |                                 |  |
|--|---------------------------------|--|
| <b>10.1 Reactivity</b>                         | : PCR Mix<br>Taq DNA Polymerase | No specific test data related to reactivity available for this product or its ingredients.<br>No specific test data related to reactivity available for this product or its ingredients.                     |
| <b>10.2 Chemical stability</b>                 | : PCR Mix<br>Taq DNA Polymerase | The product is stable.<br>The product is stable.   |
| <b>10.3 Possibility of hazardous reactions</b> | : PCR Mix<br>Taq DNA Polymerase | Under normal conditions of storage and use, hazardous reactions will not occur.<br>Under normal conditions of storage and use, hazardous reactions will not occur.   |
| <b>10.4 Conditions to avoid</b>                | : PCR Mix<br>Taq DNA Polymerase | No specific data.<br>No specific data.   |
| <b>10.5 Incompatible materials</b>             | : PCR Mix<br>Taq DNA Polymerase | May react or be incompatible with oxidizing materials.<br>May react or be incompatible with oxidizing materials.   |
| <b>10.6 Hazardous decomposition products</b>   | : PCR Mix<br>Taq DNA Polymerase | Under normal conditions of storage and use, hazardous decomposition products should not be produced.<br>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 |
|--------------------------------|-----------|---------|-------------|----------|
| Taq DNA Polymerase<br>Glycerol | LD50 Oral | Rat     | 12600 mg/kg | -        |

#### Irritation/Corrosion

| Product/ingredient name        | Result               | Species | Score | Exposure                | Observation |
|--------------------------------|----------------------|---------|-------|-------------------------|-------------|
| Taq DNA Polymerase<br>Glycerol | Eyes - Mild irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                                | Skin - Mild irritant | Rabbit  | -     | 24 hours 500 milligrams | -           |

#### Sensitization

Not available.

#### Mutagenicity

Not available.

#### Carcinogenicity

Not available.

#### Reproductive toxicity

Not available.

## Section 11. Toxicological information

### Teratogenicity

Not available.

### Specific target organ toxicity (single exposure)

Not available.

### Specific target organ toxicity (repeated exposure)

Not available.

### Aspiration hazard

Not available.

**Information on the likely routes of exposure** : PCR Mix : Not available.  
 Taq DNA Polymerase Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

**Eye contact** : PCR Mix : No known significant effects or critical hazards.  
 Taq DNA Polymerase Causes eye irritation.

**Inhalation** : PCR Mix : No known significant effects or critical hazards.  
 Taq DNA Polymerase No known significant effects or critical hazards.

**Skin contact** : PCR Mix : No known significant effects or critical hazards.  
 Taq DNA Polymerase No known significant effects or critical hazards.

**Ingestion** : PCR Mix : No known significant effects or critical hazards.  
 Taq DNA Polymerase No known significant effects or critical hazards.

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

**Eye contact** : PCR Mix : No specific data.  
 Taq DNA Polymerase Adverse symptoms may include the following:  
 irritation  
 watering  
 redness

**Inhalation** : PCR Mix : No specific data.  
 Taq DNA Polymerase No specific data.

**Skin contact** : PCR Mix : No specific data.  
 Taq DNA Polymerase No specific data.

**Ingestion** : PCR Mix : No specific data.  
 Taq DNA Polymerase No specific data.

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

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

**General** : PCR Mix : No known significant effects or critical hazards.  
 Taq DNA Polymerase No known significant effects or critical hazards.

## Section 11. Toxicological information

|                              |                                 |  |
|------------------------------|---------------------------------|--|
| <b>Carcinogenicity</b>       | : PCR Mix<br>Taq DNA Polymerase | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Mutagenicity</b>          | : PCR Mix<br>Taq DNA Polymerase | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Teratogenicity</b>        | : PCR Mix<br>Taq DNA Polymerase | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Developmental effects</b> | : PCR Mix<br>Taq DNA Polymerase | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |
| <b>Fertility effects</b>     | : PCR Mix<br>Taq DNA Polymerase | No known significant effects or critical hazards.<br>No known significant effects or critical hazards. |

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

## Section 12. Ecological information

### 12.1 Toxicity

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

### 12.2 Persistence and degradability

| Product/ingredient name        | Test  | Result         | Dose | Inoculum |
|--------------------------------|---|----------------|------|----------|
| Taq DNA Polymerase<br>Glycerol | 301D Ready<br>Biodegradability -<br>Closed Bottle<br>Test | 93 % - 30 days | -    | -        |

### 12.3 Bioaccumulative potential

| Product/ingredient name        | LogP <sub>ow</sub> | BCF | Potential |
|--------------------------------|--------------------|-----|-----------|
| Taq DNA Polymerase<br>Glycerol | -1.76              | -   | low       |

### 12.4 Mobility in soil

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

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

## Section 13. Disposal considerations

### 13.1 Waste treatment methods

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

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

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

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

## Section 14. Transport information

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

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

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

## Section 15. Regulatory information

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

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-  
**TSCA 8(a) CDR Exempt/Partial exemption:** Not determined

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

**Clean Air Act Section 602 Class I Substances** : Not listed

**Clean Air Act Section 602 Class II Substances** : Not listed

**DEA List I Chemicals (Precursor Chemicals)** : Not listed

## Section 15. Regulatory information

**DEA List II Chemicals (Essential Chemicals)** : Not listed

### SARA 302/304

#### Composition/information on ingredients

No products were found.

**SARA 304 RQ** : Not applicable.

### SARA 311/312

**Classification** : PCR Mix Not applicable.  
Taq DNA Polymerase Immediate (acute) health hazard

#### Composition/information on ingredients

| Name                           | %         | Fire hazard | Sudden release of pressure | Reactive | Immediate (acute) health hazard | Delayed (chronic) health hazard |
|--------------------------------|-----------|-------------|----------------------------|----------|---------------------------------|---------------------------------|
| Taq DNA Polymerase<br>Glycerol | ≥25 - ≤50 | No.         | No.                        | No.      | Yes.                            | No.                             |

### State regulations

**Massachusetts** : The following components are listed: GLYCERINE MIST  
**New York** : None of the components are listed.  
**New Jersey** : The following components are listed: GLYCERIN; 1,2,3-PROPANETRIOL  
**Pennsylvania** : The following components are listed: 1,2,3-PROPANETRIOL

### International regulations

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

Not listed.

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

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### Inventory list

**Australia** : Not determined.  
**Canada** : Not determined.  
**China** : Not determined.  
**Europe** : Not determined.  
**Japan** : **Japan inventory (ENCS)**: Not determined.  
**Japan inventory (ISHL)**: Not determined.  
**Malaysia** : Not determined.  
**New Zealand** : Not determined.  
**Philippines** : Not determined.  
**Republic of Korea** : Not determined.

## Section 15. Regulatory information

|                      |                   |
|----------------------|-------------------|
| <b>Taiwan</b>        | : Not determined. |
| <b>Thailand</b>      | : Not determined. |
| <b>Turkey</b>        | : Not determined. |
| <b>United States</b> | : Not determined. |
| <b>Viet Nam</b>      | : Not determined. |

## Section 16. Other information

### History

|                               |               |
|-------------------------------|---------------|
| <b>Date of issue</b>          | : 10/06/2017  |
| <b>Date of previous issue</b> | : 08/30/2017. |
| <b>Version</b>                | : 1.1         |

✔ Indicates information that has changed from previously issued version.

### Notice to reader

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