

SECTION 2: Hazards identification

Ingredients of unknown toxicity	:	PCR Mix Plex 1	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		PCR Mix Plex 2	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		PCR Mix Plex 3	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		PCR Mix Plex 4	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		PCR Mix Plex 5	Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 1 - 10%
			Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
			Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 1 - 10%
		Taq DNA Polymerase	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 10 - 30%
		AR 2	Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 30 - 60%
		Ingredients of unknown ecotoxicity	:
PCR Mix Plex 2	Contains 1.1% of components with unknown hazards to the aquatic environment		
PCR Mix Plex 3	Contains 1.1% of components with unknown hazards to the aquatic environment		
PCR Mix Plex 4	Contains 1.1% of components with unknown hazards to the aquatic environment		
PCR Mix Plex 5	Contains 5.6% of components with unknown hazards to the aquatic environment		

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Signal word	:	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.
		PCR Mix Plex 5	No signal word.
		Taq DNA Polymerase	No signal word.
		AR 2	No signal word.
Hazard statements	:	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.
		PCR Mix Plex 5	No known significant effects or critical hazards.
		Taq DNA Polymerase	H412 - Harmful to aquatic life with long lasting effects.
		AR 2	No known significant effects or critical hazards.
Precautionary statements			
Prevention	:	PCR Mix Plex 1	Not applicable.
		PCR Mix Plex 2	Not applicable.
		PCR Mix Plex 3	Not applicable.
		PCR Mix Plex 4	Not applicable.
		PCR Mix Plex 5	Not applicable.
		Taq DNA Polymerase	P273 - Avoid release to the environment.
		AR 2	Not applicable.

SECTION 2: Hazards identification

Response	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Storage	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.
Hazardous ingredients	: Taq DNA Polymerase	Not applicable.
Supplemental label elements	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
2.3 Other hazards		
Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SureMASTR MODY

SECTION 2: Hazards identification

assessed to be a PBT or a vPvB.

Other hazards which do not result in classification :

PCR Mix Plex 1	None known.
PCR Mix Plex 2	None known.
PCR Mix Plex 3	None known.
PCR Mix Plex 4	None known.
PCR Mix Plex 5	None known.
Taq DNA Polymerase	None known.
AR 2	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances :

PCR Mix Plex 1	Mixture
PCR Mix Plex 2	Mixture
PCR Mix Plex 3	Mixture
PCR Mix Plex 4	Mixture
PCR Mix Plex 5	Mixture
Taq DNA Polymerase	Mixture
AR 2	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Taq DNA Polymerase				
Glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥25 - ≤50	Not classified.	[2]
Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	CAS: 9036-19-5	<1	Eye Irrit. 2, H319 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) See Section 16 for the full text of the H statements declared above.	[1] [5]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact :

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.
PCR Mix Plex 5	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.

SECTION 4: First aid measures

Inhalation

Taq DNA Polymerase	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.
AR 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 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 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 5	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.
Taq DNA Polymerase	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. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
AR 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.

Skin contact

: PCR Mix Plex 1	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
PCR Mix Plex 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
PCR Mix Plex 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
PCR Mix Plex 4	Flush contaminated skin with plenty of water. Remove

SECTION 4: First aid measures

contaminated clothing and shoes. Get medical attention if symptoms occur.

PCR Mix Plex 5
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Taq DNA Polymerase
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.

AR 2
Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion

: PCR Mix Plex 1
Wash out mouth with water. 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. 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 3
Wash out mouth with water. 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. 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 5
Wash out mouth with water. 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.

Taq DNA Polymerase
Wash out mouth with water. Remove dentures if any. 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.

AR 2
Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Protection of first-aiders

: 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.

PCR Mix Plex 4
No action shall be taken involving any personal risk or without suitable training.

PCR Mix Plex 5
No action shall be taken involving any personal risk or

SECTION 4: First aid measures

Taq DNA Polymerase	without suitable training. 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.
AR 2	No action shall be taken involving any personal risk or without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Inhalation	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.
Skin contact	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. No specific data.

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SECTION 4: First aid measures

Ingestion	:	PCR Mix Plex 1	No specific data.
		PCR Mix Plex 2	No specific data.
		PCR Mix Plex 3	No specific data.
		PCR Mix Plex 4	No specific data.
		PCR Mix Plex 5	No specific data.
		Taq DNA Polymerase	No specific data.
		AR 2	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	:	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.
		PCR Mix Plex 5	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.
		AR 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.
Specific treatments	:	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.
		PCR Mix Plex 5	No specific treatment.
		Taq DNA Polymerase	No specific treatment.
		AR 2	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	:	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.
		PCR Mix Plex 5	Use an extinguishing agent suitable for the surrounding fire.
		Taq DNA Polymerase	Use an extinguishing agent suitable for the surrounding fire.
		AR 2	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	:	PCR Mix Plex 1	None known.
		PCR Mix Plex 2	None known.
		PCR Mix Plex 3	None known.
		PCR Mix Plex 4	None known.
		PCR Mix Plex 5	None known.
		Taq DNA Polymerase	None known.
		AR 2	None known.

5.2 Special hazards arising from the substance or mixture

SECTION 5: Firefighting measures

Hazards from the substance or mixture	: 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.
	PCR Mix Plex 5	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. 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.
	AR 2	In a fire or if heated, a pressure increase will occur and the container may burst.
Hazardous combustion products	: PCR Mix Plex 1	Decomposition products may include the following 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 phosphorus oxides
	PCR Mix Plex 5	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
	AR 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

5.3 Advice for firefighters

Special precautions for fire-fighters	: 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.
	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

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SECTION 5: Firefighting measures

Special protective equipment for fire-fighters

PCR Mix Plex 5	taken involving any personal risk or without suitable training. 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.
AR 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.
: 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. 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.
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. 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.
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. 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.
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. 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.
PCR Mix Plex 5	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.
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. 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.
AR 2	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 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.

SECTION 6: Accidental release measures

For emergency responders

		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 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.
	PCR Mix Plex 5	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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
	AR 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 1	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".
	PCR Mix Plex 2	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".
	PCR Mix Plex 3	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".
	PCR Mix Plex 4	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".
	PCR Mix Plex 5	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".
	Taq DNA Polymerase	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".
	AR 2	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".

SECTION 6: Accidental release measures

6.2 Environmental precautions	: 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).
	PCR Mix Plex 5	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).
	Taq 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). Water polluting material. May be harmful to the environment if released in large quantities.
	AR 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up	: 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.
	PCR Mix Plex 5	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. May be harmful to the environment if released. Dispose of spillages under controlled conditions.

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SECTION 6: Accidental release measures

AR 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.

6.4 Reference to other sections : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: 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).
	PCR Mix Plex 3	Put on appropriate personal protective equipment (see Section 8).
	PCR Mix Plex 4	Put on appropriate personal protective equipment (see Section 8).
	PCR Mix Plex 5	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 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.
	AR 2	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: 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.
	PCR Mix Plex 2	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.
	PCR Mix Plex 3	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.
	PCR Mix Plex 4	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.
	PCR Mix Plex 5	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.

SureMASTR MODY

SECTION 7: Handling and storage

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.
AR 2	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

: PCR Mix Plex 1	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.
PCR Mix Plex 2	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.
PCR Mix Plex 3	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.
PCR Mix Plex 4	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.
PCR Mix Plex 5	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

SureMASTR MODY

SECTION 7: Handling and storage

Taq DNA Polymerase	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.
AR 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

Recommendations	: PCR Mix Plex 1	Industrial applications, Professional applications.
	PCR Mix Plex 2	Industrial applications, Professional applications.
Industrial sector specific solutions	: PCR Mix Plex 3	Industrial applications, Professional applications.
	PCR Mix Plex 4	Industrial applications, Professional applications.
	PCR Mix Plex 5	Industrial applications, Professional applications.
	Taq DNA Polymerase	Industrial applications, Professional applications.
	AR 2	Industrial applications, Professional applications.
	: PCR Mix Plex 1	Not available.
	PCR Mix Plex 2	Not available.
PCR Mix Plex 3	Not available.	
PCR Mix Plex 4	Not available.	
PCR Mix Plex 5	Not available.	
Taq DNA Polymerase	Not available.	
AR 2	Not available.	

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
Taq DNA Polymerase Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m ³ 8 hours. Form: Mist

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.
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DNELs/DMELs

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SECTION 8: Exposure controls/personal protection

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

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

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	PCR Mix Plex 1	Liquid.
		PCR Mix Plex 2	Liquid.
		PCR Mix Plex 3	Liquid.
		PCR Mix Plex 4	Liquid.
		PCR Mix Plex 5	Liquid.
		Taq DNA Polymerase	Liquid. [Clear. / solution]
		AR 2	Liquid.
Colour	:	PCR Mix Plex 1	Not available.
		PCR Mix Plex 2	Not available.
		PCR Mix Plex 3	Not available.
		PCR Mix Plex 4	Not available.
		PCR Mix Plex 5	Not available.
		Taq DNA Polymerase	Colourless.
		AR 2	Not available.

SureMASTR MODY

SECTION 9: Physical and chemical properties

Odour : PCR Mix Plex 1 Not available.
 PCR Mix Plex 2 Not available.
 PCR Mix Plex 3 Not available.
 PCR Mix Plex 4 Not available.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Odour threshold : PCR Mix Plex 1 Not available.
 PCR Mix Plex 2 Not available.
 PCR Mix Plex 3 Not available.
 PCR Mix Plex 4 Not available.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Melting point/freezing 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.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Initial boiling point and boiling range : PCR Mix Plex 1 Not available.
 PCR Mix Plex 2 Not available.
 PCR Mix Plex 3 Not available.
 PCR Mix Plex 4 Not available.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Flammability (solid, gas) : PCR Mix Plex 1 Not applicable.
 PCR Mix Plex 2 Not applicable.
 PCR Mix Plex 3 Not applicable.
 PCR Mix Plex 4 Not applicable.
 PCR Mix Plex 5 Not applicable.
 Taq DNA Polymerase Not applicable.
 AR 2 Not applicable.

Upper/lower flammability or explosive 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.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Flash point	Ingredient name	Closed cup			Open cup		
		°C	°F	Method	°C	°F	Method
	PCR Mix Plex 1 Deoxycytidine thiotriphosphate	440.851	825.5				
	PCR Mix Plex 2 Deoxycytidine thiotriphosphate	440.851	825.5				
	PCR Mix Plex 3 Deoxycytidine thiotriphosphate	440.851	825.5				
	PCR Mix Plex 4 Deoxycytidine thiotriphosphate	440.851	825.5				

SureMASTR MODY

SECTION 9: Physical and chemical properties

PCR Mix Plex 5 Deoxycytidine thiotriphosphate	440.851	825.5				
Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), . . . alpha-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	>109.85	>229.7				
Glycerol			Pensky-Martens	177		350.6

Auto-ignition temperature

Ingredient name	°C	°F	Method
Taq DNA Polymerase			
Glycerol	370	698	

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.
- : PCR Mix Plex 5 Not available.
- : Taq DNA Polymerase AR 2 Not available.

pH

- : PCR Mix Plex 1 Not available.
- : PCR Mix Plex 2 Not available.
- : PCR Mix Plex 3 Not available.
- : PCR Mix Plex 4 Not available.
- : PCR Mix Plex 5 Not available.
- : Taq DNA Polymerase AR 2 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.
- : PCR Mix Plex 5 Not available.
- : Taq DNA Polymerase AR 2 Not available.

Solubility(ies)

- : PCR Mix Plex 1 Partially soluble in the following materials: cold water and hot water.
- : PCR Mix Plex 2 Partially soluble in the following materials: cold water and hot water.
- : PCR Mix Plex 3 Partially soluble in the following materials: cold water and hot water.
- : PCR Mix Plex 4 Partially soluble in the following materials: cold water and hot water.
- : PCR Mix Plex 5 Partially soluble in the following materials: cold water and hot water.
- : Taq DNA Polymerase AR 2 Not available.

Partition coefficient: n-octanol/water

- : PCR Mix Plex 1 Not applicable.
- : PCR Mix Plex 2 Not applicable.
- : PCR Mix Plex 3 Not applicable.
- : PCR Mix Plex 4 Not applicable.
- : PCR Mix Plex 5 Not applicable.
- : Taq DNA Polymerase AR 2 Not applicable.

Vapour pressure

:

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SECTION 9: Physical and chemical properties

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
PCR Mix Plex 1						
Water	23.8	3.2				
N-(tri(Hydroxymethyl) methyl)glycine	<0.000015001	<0.000002				
PCR Mix Plex 2						
Water	23.8	3.2				
N-(tri(Hydroxymethyl) methyl)glycine	<0.000015001	<0.000002				
PCR Mix Plex 3						
Water	23.8	3.2				
N-(tri(Hydroxymethyl) methyl)glycine	<0.000015001	<0.000002				
PCR Mix Plex 4						
Water	23.8	3.2				
N-(tri(Hydroxymethyl) methyl)glycine	<0.000015001	<0.000002				
PCR Mix Plex 5						
Water	23.8	3.2				
N-(tri(Hydroxymethyl) methyl)glycine	<0.000015001	<0.000002				
Taq DNA Polymerase						
Glycerol	0	0		0	0	
AR 2						
Water	23.8	3.2				
Betaine	0	0	EU A.4	0	0	EU A.4

Evaporation rate : PCR Mix Plex 1 Not available.
 PCR Mix Plex 2 Not available.
 PCR Mix Plex 3 Not available.
 PCR Mix Plex 4 Not available.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Relative density : PCR Mix Plex 1 Not available.
 PCR Mix Plex 2 Not available.
 PCR Mix Plex 3 Not available.
 PCR Mix Plex 4 Not available.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

SureMASTR MODY

SECTION 9: Physical and chemical properties

Vapour density : PCR Mix Plex 1 Not available.
 PCR Mix Plex 2 Not available.
 PCR Mix Plex 3 Not available.
 PCR Mix Plex 4 Not available.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Oxidising properties : PCR Mix Plex 1 Not available.
 PCR Mix Plex 2 Not available.
 PCR Mix Plex 3 Not available.
 PCR Mix Plex 4 Not available.
 PCR Mix Plex 5 Not available.
 Taq DNA Polymerase Not available.
 AR 2 Not available.

Particle characteristics

Median particle size : PCR Mix Plex 1 Not applicable.
 PCR Mix Plex 2 Not applicable.
 PCR Mix Plex 3 Not applicable.
 PCR Mix Plex 4 Not applicable.
 PCR Mix Plex 5 Not applicable.
 Taq DNA Polymerase Not applicable.
 AR 2 Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : 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.
 PCR Mix Plex 5 No specific test data related to reactivity available for this product or its ingredients.
 Taq DNA Polymerase No specific test data related to reactivity available for this product or its ingredients.
 AR 2 No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : 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.
 PCR Mix Plex 5 The product is stable.
 Taq DNA Polymerase The product is stable.
 AR 2 The product is stable.

10.3 Possibility of hazardous reactions : 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.
 PCR Mix Plex 4 Under normal conditions of storage and use, hazardous reactions will not occur.
 PCR Mix Plex 5 Under normal conditions of storage and use, hazardous reactions will not occur.
 Taq DNA Polymerase Under normal conditions of storage and use, hazardous reactions will not occur.

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SECTION 10: Stability and reactivity

AR 2 reactions will not occur.
Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : PCR Mix Plex 1 No specific data.
PCR Mix Plex 2 No specific data.
PCR Mix Plex 3 No specific data.
PCR Mix Plex 4 No specific data.
PCR Mix Plex 5 No specific data.
Taq DNA Polymerase No specific data.
AR 2 No specific data.

10.5 Incompatible 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.
PCR Mix Plex 5 May react or be incompatible with oxidising materials.
Taq DNA Polymerase May react or be incompatible with oxidising materials.
AR 2 May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : 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.
PCR Mix Plex 5 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Taq DNA Polymerase Under normal conditions of storage and use, hazardous decomposition products should not be produced.
AR 2 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 Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	LD50 Oral	Rat	2800 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.-hydroxy-	2800	N/A	N/A	N/A	N/A

Irritation/Corrosion

SureMASTR MODY

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Eyes - Severe irritant	Rabbit	-	1 %	-

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.

Aspiration hazard

Not available.

Information on likely routes of exposure

PCR Mix Plex 1	Routes of entry anticipated: Oral, Dermal, Inhalation.
PCR Mix Plex 2	Routes of entry anticipated: Oral, Dermal, Inhalation.
PCR Mix Plex 3	Routes of entry anticipated: Oral, Dermal, Inhalation.
PCR Mix Plex 4	Routes of entry anticipated: Oral, Dermal, Inhalation.
PCR Mix Plex 5	Routes of entry anticipated: Oral, Dermal, Inhalation.
Taq DNA Polymerase	Routes of entry anticipated: Oral, Dermal, Inhalation.
AR 2	Not available.

Potential acute health effects

Inhalation	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: PCR Mix Plex 1 PCR Mix Plex 2 PCR Mix Plex 3 PCR Mix Plex 4 PCR Mix Plex 5 Taq DNA Polymerase AR 2	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

SureMASTR MODY

SECTION 11: Toxicological information

Inhalation	:	PCR Mix Plex 1	No specific data.
		PCR Mix Plex 2	No specific data.
		PCR Mix Plex 3	No specific data.
		PCR Mix Plex 4	No specific data.
		PCR Mix Plex 5	No specific data.
		Taq DNA Polymerase AR 2	No specific data.
Ingestion	:	PCR Mix Plex 1	No specific data.
		PCR Mix Plex 2	No specific data.
		PCR Mix Plex 3	No specific data.
		PCR Mix Plex 4	No specific data.
		PCR Mix Plex 5	No specific data.
		Taq DNA Polymerase AR 2	No specific data.
Skin contact	:	PCR Mix Plex 1	No specific data.
		PCR Mix Plex 2	No specific data.
		PCR Mix Plex 3	No specific data.
		PCR Mix Plex 4	No specific data.
		PCR Mix Plex 5	No specific data.
		Taq DNA Polymerase AR 2	No specific data.
Eye contact	:	PCR Mix Plex 1	No specific data.
		PCR Mix Plex 2	No specific data.
		PCR Mix Plex 3	No specific data.
		PCR Mix Plex 4	No specific data.
		PCR Mix Plex 5	No specific data.
		Taq DNA Polymerase AR 2	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

General	:	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.
		PCR Mix Plex 5	No known significant effects or critical hazards.
		Taq DNA Polymerase AR 2	No known significant effects or critical hazards.
Carcinogenicity	:	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.
		PCR Mix Plex 5	No known significant effects or critical hazards.
		Taq DNA Polymerase AR 2	No known significant effects or critical hazards.

SureMASTR MODY

SECTION 11: Toxicological information

Mutagenicity	:	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.
		PCR Mix Plex 5	No known significant effects or critical hazards.
		Taq DNA Polymerase AR 2	No known significant effects or critical hazards.
Reproductive toxicity	:	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.
		PCR Mix Plex 5	No known significant effects or critical hazards.
		Taq DNA Polymerase AR 2	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	Acute EC50 210 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 10800 µg/l Marine water	Crustaceans - Pandalus montagui - Adult	48 hours
	Acute LC50 8600 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 7200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), . alpha.-[(1,1,3,3-tetramethylbutyl) phenyl]-.omega.-hydroxy-	3.77	78.67	low

12.4 Mobility in soil

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

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

SureMASTR MODY

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 : Dispose of material(s) and residues under controlled conditions. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

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 IMO instruments : 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

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SECTION 15: Regulatory information

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.- hydroxy-	Substance of equivalent concern for environment	Listed	42	7/3/2017

Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Taq DNA Polymerase Poly(oxy-1,2-ethanediyl), .alpha.-[(1,1,3,3-tetramethylbutyl)phenyl]-.omega.- hydroxy-	Substance of equivalent concern for environment	Recommended	ED/169/2012	7/3/2017

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Label	: PCR Mix Plex 1	Not applicable.
	: PCR Mix Plex 2	Not applicable.
	: PCR Mix Plex 3	Not applicable.
	: PCR Mix Plex 4	Not applicable.
	: PCR Mix Plex 5	Not applicable.
	: Taq DNA Polymerase	Not applicable.
	: AR 2	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

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

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 (CSCL): Not determined. Japan inventory (ISHL): Not determined.

SureMASTR MODY

SECTION 15: Regulatory information

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]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- N/A = Not available
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative


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

Classification	Justification
 Taq DNA Polymerase Aquatic Chronic 3, H412	Calculation method

Full text of abbreviated H statements

Taq DNA Polymerase H319 H400 H410 H412	Causes serious eye irritation. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

 Taq DNA Polymerase Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 3 Eye Irrit. 2	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
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Version : 4

Notice to reader

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