

SAFETY DATA SHEET



Mammalian Transfection Kit, Part Number 200285

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

1.1 Product identifier

Product name	: Mammalian Transfection Kit, Part Number 200285
Part No. (Kit)	: 200285
Part No.	: Mammalian Transfection Kit Solution 1 200285-81
	Mammalian Transfection Kit Solution 2 200285-82
	Mammalian Transfection Kit Solution 3 200285-83
	pWL-neo Plasmid 200285-85
	In-Situ β -GAL Control Plasmid 200384-24

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

Identified uses	
Analytical reagent.	
Mammalian Transfection Kit Solution 1	1.5 ml
Mammalian Transfection Kit Solution 2	15 ml
Mammalian Transfection Kit Solution 3	5 ml
pWL-neo Plasmid	0.04 ml
In-Situ β -GAL Control Plasmid	0.015 ml (15 μ l 1 μ g/ μ l)

1.3 Details of the supplier of the safety data sheet

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

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

1.4 Emergency telephone number

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

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Mammalian Transfection Kit Solution 1 Mixture
	Mammalian Transfection Kit Solution 2 Mixture
	Mammalian Transfection Kit Solution 3 Mixture
	pWL-neo Plasmid Mixture
	In-Situ β -GAL Control Plasmid Mixture

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

Date of issue/Date of revision : 31/12/2017

Mammalian Transfection Kit, Part Number 200285

SECTION 2: Hazards identification

Mammalian Transfection Kit

Solution 1

H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Ingredients of unknown toxicity	: Mammalian Transfection Kit Solution 2	Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10%
		Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10%
Ingredients of unknown ecotoxicity	: Mammalian Transfection Kit Solution 2	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.1%

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

Hazard pictograms : Mammalian Transfection Kit Solution 1



Signal word : Mammalian Transfection Kit Solution 1 Warning
Mammalian Transfection Kit Solution 2 No signal word.
Mammalian Transfection Kit Solution 3 No signal word.
pWL-neo Plasmid No signal word.
In-Situ β -GAL Control Plasmid No signal word.

Hazard statements : Mammalian Transfection Kit Solution 1 H319 - Causes serious eye irritation.
Mammalian Transfection Kit Solution 2 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 3 No known significant effects or critical hazards.
pWL-neo Plasmid No known significant effects or critical hazards.
In-Situ β -GAL Control Plasmid No known significant effects or critical hazards.

Precautionary statements

Prevention : Mammalian Transfection Kit Solution 1 P280 - Wear eye or face protection.
P264 - Wash hands thoroughly after handling.
Mammalian Transfection Kit Solution 2 Not applicable.
Mammalian Transfection Kit Solution 3 Not applicable.
pWL-neo Plasmid Not applicable.
In-Situ β -GAL Control Plasmid Not applicable.

Response : Mammalian Transfection Kit Solution 1 P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Mammalian Transfection Kit Solution 2 Not applicable.
Mammalian Transfection Kit Solution 3 Not applicable.
pWL-neo Plasmid Not applicable.

Mammalian Transfection Kit, Part Number 200285

SECTION 2: Hazards identification

	In-Situ β -GAL Control Plasmid	Not applicable.
Storage	: Mammalian Transfection Kit Solution 1	Not applicable.
	Mammalian Transfection Kit Solution 2	Not applicable.
	Mammalian Transfection Kit Solution 3	Not applicable.
	pWL-neo Plasmid	Not applicable.
	In-Situ β -GAL Control Plasmid	Not applicable.
Disposal	: Mammalian Transfection Kit Solution 1	Not applicable.
	Mammalian Transfection Kit Solution 2	Not applicable.
	Mammalian Transfection Kit Solution 3	Not applicable.
	pWL-neo Plasmid	Not applicable.
	In-Situ β -GAL Control Plasmid	Not applicable.
Hazardous ingredients	: Mammalian Transfection Kit Solution 1	Not applicable.
	Mammalian Transfection Kit Solution 2	Not applicable.
Supplemental label elements	: Mammalian Transfection Kit Solution 1	Not applicable.
	Mammalian Transfection Kit Solution 2	Safety data sheet available on request.
	Mammalian Transfection Kit Solution 3	Not applicable.
	pWL-neo Plasmid	Not applicable.
	In-Situ β -GAL Control Plasmid	Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Mammalian Transfection Kit Solution 1	Not applicable.
	Mammalian Transfection Kit Solution 2	Not applicable.
	Mammalian Transfection Kit Solution 3	Not applicable.
	pWL-neo Plasmid	Not applicable.
	In-Situ β -GAL Control Plasmid	Not applicable.
Special packaging requirements		
Tactile warning of danger	: Mammalian Transfection Kit Solution 1	Not applicable.
	Mammalian Transfection Kit Solution 2	Not applicable.
	Mammalian Transfection Kit Solution 3	Not applicable.
	pWL-neo Plasmid	Not applicable.
	In-Situ β -GAL Control Plasmid	Not applicable.

2.3 Other hazards

Mammalian Transfection Kit, Part Number 200285

SECTION 2: Hazards identification

Other hazards which do not result in classification :

Mammalian Transfection Kit Solution 1	None known.
Mammalian Transfection Kit Solution 2	None known.
Mammalian Transfection Kit Solution 3	None known.
pWL-neo Plasmid	None known.
In-Situ β -GAL Control Plasmid	None known.

SECTION 3: Composition/information on ingredients

3.1 Substances :

Mammalian Transfection Kit Solution 1	Mixture
Mammalian Transfection Kit Solution 2	Mixture
Mammalian Transfection Kit Solution 3	Mixture
pWL-neo Plasmid	Mixture
In-Situ β -GAL Control Plasmid	Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
Mammalian Transfection Kit Solution 1 calcium chloride	EC: 233-140-8 CAS: 10043-52-4 Index: 017-013-00-2	≥25 - ≤50	Eye Irrit. 2, H319	[1]
Mammalian Transfection Kit Solution 2 Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≤3	Eye Irrit. 2, H319	[1]
2-[bis(2-Hydroxyethyl)amino]ethanesulphonic acid	EC: 233-465-5 CAS: 10191-18-1	≤3	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1]
			See Section 16 for the full text of the H statements declared above.	

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.

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 :

Mammalian Transfection Kit Solution 1	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.
Mammalian Transfection Kit Solution 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.

Mammalian Transfection Kit, Part Number 200285

SECTION 4: First aid measures

	Mammalian Transfection Kit Solution 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.
	pWL-neo Plasmid	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.
	In-Situ β -GAL Control Plasmid	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
Inhalation	: Mammalian Transfection Kit Solution 1	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.
	Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 3	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	pWL-neo Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	In-Situ β -GAL Control Plasmid	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Mammalian Transfection Kit Solution 1	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.
	Mammalian Transfection Kit Solution 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Mammalian Transfection Kit Solution 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pWL-neo Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	In-Situ β -GAL Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: Mammalian Transfection Kit Solution 1	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

SECTION 4: First aid measures

		position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	Mammalian Transfection Kit Solution 2	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Mammalian Transfection Kit Solution 3	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.
	pWL-neo Plasmid	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.
	In-Situ β -GAL Control Plasmid	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
Protection of first-aiders	: Mammalian Transfection Kit Solution 1	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.
	Mammalian Transfection Kit Solution 2	No action shall be taken involving any personal risk or without suitable training.
	Mammalian Transfection Kit Solution 3	No action shall be taken involving any personal risk or without suitable training.
	pWL-neo Plasmid	No action shall be taken involving any personal risk or without suitable training.
	In-Situ β -GAL Control Plasmid	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	: Mammalian Transfection Kit Solution 1	Causes serious eye irritation.
	Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
	Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
	pWL-neo Plasmid	No known significant effects or critical hazards.
	In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.
Inhalation	: Mammalian Transfection Kit Solution 1	No known significant effects or critical hazards.
	Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
	Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
	pWL-neo Plasmid	No known significant effects or critical hazards.
	In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.

Mammalian Transfection Kit, Part Number 200285

SECTION 4: First aid measures

Skin contact : Mammalian Transfection Kit Solution 1 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 2 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 3 No known significant effects or critical hazards.
pWL-neo Plasmid No known significant effects or critical hazards.
In-Situ β -GAL Control Plasmid No known significant effects or critical hazards.

Ingestion : Mammalian Transfection Kit Solution 1 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 2 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 3 No known significant effects or critical hazards.
pWL-neo Plasmid No known significant effects or critical hazards.
In-Situ β -GAL Control Plasmid No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : Mammalian Transfection Kit Solution 1 Adverse symptoms may include the following:
pain or irritation
watering
redness
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

Inhalation : Mammalian Transfection Kit Solution 1 No specific data.
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

Skin contact : Mammalian Transfection Kit Solution 1 No specific data.
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

Ingestion : Mammalian Transfection Kit Solution 1 No specific data.
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Mammalian Transfection Kit, Part Number 200285

SECTION 4: First aid measures

Notes to physician	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	No specific treatment. No specific treatment. No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	None known. None known. None known. None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
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Mammalian Transfection Kit, Part Number 200285

SECTION 5: Firefighting measures

Hazardous combustion products	: Mammalian Transfection Kit Solution 1	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Mammalian Transfection Kit Solution 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
	Mammalian Transfection Kit Solution 3	No specific data.
	pWL-neo Plasmid	No specific data.
	In-Situ β -GAL Control Plasmid	No specific data.

5.3 Advice for firefighters

Special precautions for fire-fighters	: Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 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.
	pWL-neo Plasmid	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.
	In-Situ β -GAL Control Plasmid	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

Special protective equipment for fire-fighters	: Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 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.
	pWL-neo Plasmid	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.
	In-Situ β -GAL Control Plasmid	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

Mammalian Transfection Kit, Part Number 200285

SECTION 5: Firefighting measures

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

Mammalian Transfection Kit Solution 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Mammalian Transfection Kit Solution 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.
Mammalian Transfection Kit Solution 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.
pWL-neo Plasmid	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.
In-Situ β -GAL Control Plasmid	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.

For emergency responders

Mammalian Transfection Kit Solution 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".
Mammalian Transfection Kit Solution 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".
Mammalian Transfection Kit Solution 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".
pWL-neo Plasmid	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".
In-Situ β -GAL Control Plasmid	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	:	Mammalian Transfection Kit Solution 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).
		Mammalian Transfection Kit Solution 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).
		Mammalian Transfection Kit Solution 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).
		pWL-neo Plasmid	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).
		In-Situ β -GAL Control Plasmid	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	:	Mammalian Transfection Kit Solution 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.
		Mammalian Transfection Kit Solution 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.
		Mammalian Transfection Kit Solution 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.
		pWL-neo Plasmid	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.
		In-Situ β -GAL Control Plasmid	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.
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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures	: Mammalian Transfection Kit Solution 1	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour 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.
	Mammalian Transfection Kit Solution 2	Put on appropriate personal protective equipment (see Section 8).
	Mammalian Transfection Kit Solution 3	Put on appropriate personal protective equipment (see Section 8).
	pWL-neo Plasmid	Put on appropriate personal protective equipment (see Section 8).
	In-Situ β -GAL Control Plasmid	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 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.
	pWL-neo Plasmid	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.
	In-Situ β -GAL Control Plasmid	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	: Mammalian Transfection Kit Solution 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.
	Mammalian Transfection Kit Solution 2	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and

SECTION 7: Handling and storage

	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.
Mammalian Transfection Kit Solution 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.
pWL-neo Plasmid	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.
In-Situ β -GAL Control Plasmid	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	: Mammalian Transfection Kit Solution 1	Industrial applications, Professional applications.
	Mammalian Transfection Kit Solution 2	Industrial applications, Professional applications.
	Mammalian Transfection Kit Solution 3	Industrial applications, Professional applications.
	pWL-neo Plasmid	Industrial applications, Professional applications.
	In-Situ β -GAL Control Plasmid	Industrial applications, Professional applications.
Industrial sector specific solutions	: Mammalian Transfection Kit Solution 1	Not applicable.
	Mammalian Transfection Kit Solution 2	Not applicable.
	Mammalian Transfection Kit Solution 3	Not applicable.
	pWL-neo Plasmid	Not applicable.
	In-Situ β -GAL Control Plasmid	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

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

Individual protection measures

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

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

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. 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.

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.

Mammalian Transfection Kit, Part Number 200285

SECTION 8: Exposure controls/personal protection

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

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	Mammalian Transfection Kit Solution 1	Liquid.
		Mammalian Transfection Kit Solution 2	Liquid.
		Mammalian Transfection Kit Solution 3	Liquid.
		pWL-neo Plasmid	Liquid.
		In-Situ β -GAL Control Plasmid	Liquid.
Colour	:	Mammalian Transfection Kit Solution 1	Not available.
		Mammalian Transfection Kit Solution 2	Not available.
		Mammalian Transfection Kit Solution 3	Not available.
		pWL-neo Plasmid	Not available.
		In-Situ β -GAL Control Plasmid	Not available.
Odour	:	Mammalian Transfection Kit Solution 1	Not available.
		Mammalian Transfection Kit Solution 2	Not available.
		Mammalian Transfection Kit Solution 3	Not available.
		pWL-neo Plasmid	Not available.
		In-Situ β -GAL Control Plasmid	Not available.
Odour threshold	:	Mammalian Transfection Kit Solution 1	Not available.
		Mammalian Transfection Kit Solution 2	Not available.
		Mammalian Transfection Kit Solution 3	Not available.
		pWL-neo Plasmid	Not available.
		In-Situ β -GAL Control Plasmid	Not available.

Mammalian Transfection Kit, Part Number 200285

SECTION 9: Physical and chemical properties

pH	: Mammalian Transfection Kit Solution 1	Not available.	
	Mammalian Transfection Kit Solution 2	6.95	
	Mammalian Transfection Kit Solution 3	Not available.	
	pWL-neo Plasmid	7.5	
	In-Situ β -GAL Control Plasmid	7.5	
	Melting point/freezing point	: Mammalian Transfection Kit Solution 1	Not available.
		Mammalian Transfection Kit Solution 2	0°C
		Mammalian Transfection Kit Solution 3	0°C
pWL-neo Plasmid		0°C	
In-Situ β -GAL Control Plasmid		0°C	
Initial boiling point and boiling range		: Mammalian Transfection Kit Solution 1	Not available.
		Mammalian Transfection Kit Solution 2	100°C
		Mammalian Transfection Kit Solution 3	100°C
	pWL-neo Plasmid	100°C	
	In-Situ β -GAL Control Plasmid	100°C	
	Flash point	: Mammalian Transfection Kit Solution 1	Not available.
		Mammalian Transfection Kit Solution 2	Not available.
		Mammalian Transfection Kit Solution 3	Not available.
pWL-neo Plasmid		Not available.	
In-Situ β -GAL Control Plasmid		Not available.	
Evaporation rate		: Mammalian Transfection Kit Solution 1	Not available.
		Mammalian Transfection Kit Solution 2	Not available.
		Mammalian Transfection Kit Solution 3	Not available.
	pWL-neo Plasmid	Not available.	
	In-Situ β -GAL Control Plasmid	Not available.	

Mammalian Transfection Kit, Part Number 200285

SECTION 9: Physical and chemical properties

Flammability (solid, gas)	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	Not applicable. Not applicable. Not applicable. Not applicable. Not applicable.
Upper/lower flammability or explosive limits	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	Not available. Not available. Not available. Not available. Not available.
Vapour pressure	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	Not available. Not available. Not available. Not available. Not available.
Vapour density	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	Not available. Not available. Not available. Not available. Not available.
Relative density	: Mammalian Transfection Kit Solution 1 Mammalian Transfection Kit Solution 2 Mammalian Transfection Kit Solution 3 pWL-neo Plasmid In-Situ β -GAL Control Plasmid	Not available. Not available. Not available. Not available. Not available.

Mammalian Transfection Kit, Part Number 200285

SECTION 9: Physical and chemical properties

Solubility(ies)	: Mammalian Transfection Kit Solution 1	Soluble in the following materials: cold water and hot water.
	Mammalian Transfection Kit Solution 2	Easily soluble in the following materials: cold water and hot water.
	Mammalian Transfection Kit Solution 3	Soluble in the following materials: cold water and hot water.
	pWL-neo Plasmid	Easily soluble in the following materials: cold water and hot water.
	In-Situ β -GAL Control Plasmid	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: Mammalian Transfection Kit Solution 1	Not available.
	Mammalian Transfection Kit Solution 2	Not available.
	Mammalian Transfection Kit Solution 3	Not available.
	pWL-neo Plasmid	Not available.
	In-Situ β -GAL Control Plasmid	Not available.
Auto-ignition temperature	: Mammalian Transfection Kit Solution 1	Not available.
	Mammalian Transfection Kit Solution 2	Not available.
	Mammalian Transfection Kit Solution 3	Not available.
	pWL-neo Plasmid	Not available.
	In-Situ β -GAL Control Plasmid	Not available.
Decomposition temperature	: Mammalian Transfection Kit Solution 1	Not available.
	Mammalian Transfection Kit Solution 2	Not available.
	Mammalian Transfection Kit Solution 3	Not available.
	pWL-neo Plasmid	Not available.
	In-Situ β -GAL Control Plasmid	Not available.
Viscosity	: Mammalian Transfection Kit Solution 1	Not available.
	Mammalian Transfection Kit Solution 2	Not available.
	Mammalian Transfection Kit Solution 3	Not available.
	pWL-neo Plasmid	Not available.
	In-Situ β -GAL Control Plasmid	Not available.

Mammalian Transfection Kit, Part Number 200285

SECTION 9: Physical and chemical properties

Explosive properties	: Mammalian Transfection Kit Solution 1	Not available.
	: Mammalian Transfection Kit Solution 2	Not available.
	: Mammalian Transfection Kit Solution 3	Not available.
	: pWL-neo Plasmid	Not available.
	: In-Situ β -GAL Control Plasmid	Not available.
Oxidising properties	: Mammalian Transfection Kit Solution 1	Not available.
	: Mammalian Transfection Kit Solution 2	Not available.
	: Mammalian Transfection Kit Solution 3	Not available.
	: pWL-neo Plasmid	Not available.
	: In-Situ β -GAL Control Plasmid	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Mammalian Transfection Kit Solution 1	No specific test data related to reactivity available for this product or its ingredients.
	: Mammalian Transfection Kit Solution 2	No specific test data related to reactivity available for this product or its ingredients.
	: Mammalian Transfection Kit Solution 3	No specific test data related to reactivity available for this product or its ingredients.
	: pWL-neo Plasmid	No specific test data related to reactivity available for this product or its ingredients.
	: In-Situ β -GAL Control Plasmid	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Mammalian Transfection Kit Solution 1	The product is stable.
	: Mammalian Transfection Kit Solution 2	The product is stable.
	: Mammalian Transfection Kit Solution 3	The product is stable.
	: pWL-neo Plasmid	The product is stable.
	: In-Situ β -GAL Control Plasmid	The product is stable.
10.3 Possibility of hazardous reactions	: Mammalian Transfection Kit Solution 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	: Mammalian Transfection Kit Solution 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	: Mammalian Transfection Kit Solution 3	Under normal conditions of storage and use, hazardous reactions will not occur.
	: pWL-neo Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.
	: In-Situ β -GAL Control	Under normal conditions of storage and use, hazardous reactions will not occur.

Mammalian Transfection Kit, Part Number 200285

SECTION 10: Stability and reactivity

Plasmid reactions will not occur.

10.4 Conditions to avoid : Mammalian Transfection Kit Solution 1 No specific data.
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

10.5 Incompatible materials : Mammalian Transfection Kit Solution 1 May react or be incompatible with oxidising materials.
Mammalian Transfection Kit Solution 2 May react or be incompatible with oxidising materials.
Mammalian Transfection Kit Solution 3 May react or be incompatible with oxidising materials.
pWL-neo Plasmid May react or be incompatible with oxidising materials.
In-Situ β -GAL Control Plasmid May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : Mammalian Transfection Kit Solution 1 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Mammalian Transfection Kit Solution 2 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Mammalian Transfection Kit Solution 3 Under normal conditions of storage and use, hazardous decomposition products should not be produced.
pWL-neo Plasmid Under normal conditions of storage and use, hazardous decomposition products should not be produced.
In-Situ β -GAL Control Plasmid 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
Mammalian Transfection Kit Solution 1 calcium chloride	LD50 Oral	Rat	1 g/kg	-
Mammalian Transfection Kit Solution 2 Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Acute toxicity estimates

Not available.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Mammalian Transfection Kit Solution 2 Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Mammalian Transfection Kit, Part Number 200285

SECTION 11: Toxicological information

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Mammalian Transfection Kit Solution 2 2-[bis(2-Hydroxyethyl)amino]ethanesulphonic acid	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure

: Mammalian Transfection Kit Solution 1 Routes of entry anticipated: Oral, Dermal, Inhalation.
Mammalian Transfection Kit Solution 2 Routes of entry anticipated: Oral, Dermal, Inhalation.
Mammalian Transfection Kit Solution 3 Not available.
pWL-neo Plasmid Not available.
In-Situ β -GAL Control Plasmid Not available.

Potential acute health effects

Inhalation : Mammalian Transfection Kit Solution 1 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 2 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 3 No known significant effects or critical hazards.
pWL-neo Plasmid No known significant effects or critical hazards.
In-Situ β -GAL Control Plasmid No known significant effects or critical hazards.

Ingestion : Mammalian Transfection Kit Solution 1 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 2 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 3 No known significant effects or critical hazards.
pWL-neo Plasmid No known significant effects or critical hazards.
In-Situ β -GAL Control Plasmid No known significant effects or critical hazards.

Skin contact : Mammalian Transfection Kit Solution 1 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 2 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 3 No known significant effects or critical hazards.
pWL-neo Plasmid No known significant effects or critical hazards.
In-Situ β -GAL Control Plasmid No known significant effects or critical hazards.

Eye contact : Mammalian Transfection Kit Solution 1 Causes serious eye irritation.
Mammalian Transfection Kit Solution 2 No known significant effects or critical hazards.
Mammalian Transfection Kit Solution 3 No known significant effects or critical hazards.
pWL-neo Plasmid No known significant effects or critical hazards.

Mammalian Transfection Kit, Part Number 200285

SECTION 11: Toxicological information

In-Situ β -GAL Control Plasmid No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : Mammalian Transfection Kit Solution 1 No specific data.
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

Ingestion : Mammalian Transfection Kit Solution 1 No specific data.
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

Skin contact : Mammalian Transfection Kit Solution 1 No specific data.
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid No specific data.

Eye contact : Mammalian Transfection Kit Solution 1 Adverse symptoms may include the following:
pain or irritation
watering
redness
Mammalian Transfection Kit Solution 2 No specific data.
Mammalian Transfection Kit Solution 3 No specific data.
pWL-neo Plasmid No specific data.
In-Situ β -GAL Control Plasmid 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

Mammalian Transfection Kit, Part Number 200285

SECTION 11: Toxicological information

General	:	Mammalian Transfection Kit Solution 1	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
		pWL-neo Plasmid	No known significant effects or critical hazards.
		In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.
Carcinogenicity	:	Mammalian Transfection Kit Solution 1	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
		pWL-neo Plasmid	No known significant effects or critical hazards.
		In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.
Mutagenicity	:	Mammalian Transfection Kit Solution 1	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
		pWL-neo Plasmid	No known significant effects or critical hazards.
		In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.
Teratogenicity	:	Mammalian Transfection Kit Solution 1	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
		pWL-neo Plasmid	No known significant effects or critical hazards.
		In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.
Developmental effects	:	Mammalian Transfection Kit Solution 1	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
		pWL-neo Plasmid	No known significant effects or critical hazards.
		In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.
Fertility effects	:	Mammalian Transfection Kit Solution 1	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 2	No known significant effects or critical hazards.
		Mammalian Transfection Kit Solution 3	No known significant effects or critical hazards.
		pWL-neo Plasmid	No known significant effects or critical hazards.
		In-Situ β -GAL Control Plasmid	No known significant effects or critical hazards.

Mammalian Transfection Kit, Part Number 200285

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Mammalian Transfection Kit Solution 1 calcium chloride	Acute EC50 3130000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 464000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 270 mg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 2110 mg/l Fresh water	Fish - Pimephales promelas	96 hours
Mammalian Transfection Kit Solution 2 Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402600 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days	
Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks	

12.2 Persistence and degradability

Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Mammalian Transfection Kit Solution 1 calcium chloride	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Mammalian Transfection Kit Solution 1 calcium chloride	<3	-	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

PBT : Not applicable.

vPvB : Not applicable.

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

Mammalian Transfection Kit, Part Number 200285

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** : The classification of the product may meet the criteria for a hazardous waste.

Packaging

- Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
- Special precautions** : This material and its container must be disposed of in a safe way. 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA : Not regulated.

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

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

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Mammalian Transfection Kit Solution 1	Not applicable.
Mammalian Transfection Kit Solution 2	Not applicable.
Mammalian Transfection Kit Solution 3	Not applicable.
pWL-neo Plasmid	Not applicable.
In-Situ β -GAL Control Plasmid	Not applicable.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Seveso Directive

Date of issue/Date of revision : 31/12/2017

25/27

Mammalian Transfection Kit, Part Number 200285

SECTION 15: Regulatory information

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined.
Malaysia	: Not determined.
New Zealand	: All components are listed or exempted.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: All components are listed or exempted.
Thailand	: Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: Not determined.

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms : ATE = Acute Toxicity Estimate
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
DNEL = Derived No Effect Level
EUH statement = CLP-specific Hazard statement
PNEC = Predicted No Effect Concentration
RRN = REACH Registration Number

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

Classification	Justification
Mammalian Transfection Kit Solution 1 Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

Date of issue/Date of revision : 31/12/2017

26/27

Mammalian Transfection Kit, Part Number 200285

SECTION 16: Other information

Mammalian Transfection Kit Solution 1
H319

Causes serious eye irritation.

Mammalian Transfection Kit Solution 2
H315
H319
H335

Causes skin irritation.
Causes serious eye irritation.
May cause respiratory irritation.

[Full text of classifications \[CLP/GHS\]](#)

Mammalian Transfection Kit Solution 1
Eye Irrit. 2, H319

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

Mammalian Transfection Kit Solution 2
Eye Irrit. 2, H319
Skin Irrit. 2, H315
STOT SE 3, H335

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
SKIN CORROSION/IRRITATION - Category 2
SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE
(Respiratory tract irritation) - Category 3

Date of issue/ Date of revision : 31/12/2017

Date of previous issue : No previous validation.

Version : 1

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