

SAFETY DATA SHEET



MBS Mammalian Transfection Kit, Part Number 200388

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

1.1 Product identifier

Product name : MBS Mammalian Transfection Kit, Part Number 200388
Part No. (Kit) : 200388
Part No. : MBS Transfection Kit 200388-51
Solution 1
MBS Transfection Kit 200388-52
Solution 2
MBS Transfection Kit 200388-53
Soltuion 3
pCMV β -Gal Control 200388-54
Plasmid

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

Identified uses	
Analytical reagent.	
MBS Transfection Kit Solution 1	10 mL
MBS Transfection Kit Solution 2	50 mL
MBS Transfection Kit Soltuion 3	80 mL
pCMV β -Gal Control Plasmid	0.04 mL (40 μ g 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 : MBS Transfection Kit Mixture
Solution 1
MBS Transfection Kit Mixture
Solution 2
MBS Transfection Kit Mixture
Soltuion 3
pCMV β -Gal Control Mixture
Plasmid

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

MBS Transfection Kit Solution

1

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SECTION 2: Hazards identification

Ingredients of unknown toxicity	: MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 1.1% Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 98.8%
Ingredients of unknown ecotoxicity	: MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 1.1% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 98.8%

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 :



Signal word

: MBS Transfection Kit Solution 1	Warning
MBS Transfection Kit Solution 2	No signal word.
MBS Transfection Kit Soltuion 3	No signal word.
pCMV β-Gal Control Plasmid	No signal word.

Hazard statements

: MBS Transfection Kit Solution 1	GHS07 - Causes serious eye irritation.
MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
MBS Transfection Kit Soltuion 3	No known significant effects or critical hazards.
pCMV β-Gal Control Plasmid	No known significant effects or critical hazards.

Precautionary statements

Prevention

: MBS Transfection Kit Solution 1	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
MBS Transfection Kit Solution 2	Not applicable.
MBS Transfection Kit Soltuion 3	Not applicable.
pCMV β-Gal Control Plasmid	Not applicable.

Response

: MBS 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.
MBS Transfection Kit Solution 2	Not applicable.
MBS Transfection Kit Soltuion 3	Not applicable.
pCMV β-Gal Control Plasmid	Not applicable.

Storage

: MBS Transfection Kit Solution 1	Not applicable.
MBS Transfection Kit Solution 2	Not applicable.
MBS Transfection Kit Soltuion 3	Not applicable.
pCMV β-Gal Control Plasmid	Not applicable.

SECTION 2: Hazards identification

Disposal	: MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Not applicable.
	MBS Transfection Kit Soltuion 3	Not applicable.
	pCMV β-Gal Control Plasmid	Not applicable.
Hazardous ingredients	: MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Not applicable.
Supplemental label elements	: MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Safety data sheet available on request.
	MBS Transfection Kit Soltuion 3	Not applicable.
	pCMV 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	: MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Not applicable.
	MBS Transfection Kit Soltuion 3	Not applicable.
	pCMV β-Gal Control Plasmid	Not applicable.
<u>Special packaging requirements</u>		
Tactile warning of danger	: MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Not applicable.
	MBS Transfection Kit Soltuion 3	Not applicable.
	pCMV β-Gal Control Plasmid	Not applicable.
2.3 Other hazards		
Other hazards which do not result in classification	: MBS Transfection Kit Solution 1	None known.
	MBS Transfection Kit Solution 2	None known.
	MBS Transfection Kit Soltuion 3	None known.
	pCMV β-Gal Control Plasmid	None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: MBS Transfection Kit Solution 1	Mixture
	MBS Transfection Kit Solution 2	Mixture
	MBS Transfection Kit Soltuion 3	Mixture
	pCMV β-Gal Control Plasmid	Mixture

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Type
MBS Transfection Kit Solution 1 Calcium chloride (CaCl ₂), dihydrate	EC: 233-140-8 CAS: 10035-04-8 Index: 017-013-00-2	≥25 - ≤50	Eye Irrit. 2, H319	[1]
MBS 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]
MBS Transfection Kit Soltuion 3 Ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤3	Flam. Liq. 2, H225	[2]
			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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

: MBS 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.

MBS 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.

MBS Transfection Kit Soltuion 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.

pCMV 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

: MBS 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.

MBS 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

SECTION 4: First aid measures

		person may need to be kept under medical surveillance for 48 hours.
	MBS 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.
	pCMV 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	: MBS 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.
	MBS Transfection Kit Solution 2	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	MBS Transfection Kit Solution 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	pCMV β -Gal Control Plasmid	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
Ingestion	: MBS 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 position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
	MBS 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.
	MBS 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.
	pCMV 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	: MBS 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.
	MBS Transfection Kit Solution 2	No action shall be taken involving any personal risk or without suitable training.
	MBS Transfection Kit Solution 3	No action shall be taken involving any personal risk or without suitable training.
	pCMV β -Gal Control Plasmid	No action shall be taken involving any personal risk or without suitable training.

SECTION 4: First aid measures**4.2 Most important symptoms and effects, both acute and delayed****Potential acute health effects**

Eye contact	:	MBS Transfection Kit Solution 1	Causes serious eye irritation.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Inhalation	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Skin contact	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Ingestion	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	:	MBS Transfection Kit Solution 1	Adverse symptoms may include the following: pain or irritation watering redness
		MBS Transfection Kit Solution 2	No specific data.
		MBS Transfection Kit Solution 3	No specific data.
		pCMV β -Gal Control Plasmid	No specific data.
Inhalation	:	MBS Transfection Kit Solution 1	No specific data.
		MBS Transfection Kit Solution 2	No specific data.
		MBS Transfection Kit Solution 3	No specific data.
		pCMV β -Gal Control Plasmid	No specific data.
Skin contact	:	MBS Transfection Kit Solution 1	No specific data.
		MBS Transfection Kit Solution 2	No specific data.
		MBS Transfection Kit Solution 3	No specific data.
		pCMV β -Gal Control Plasmid	No specific data.

SECTION 4: First aid measures

	Plasmid	
Ingestion	: MBS Transfection Kit Solution 1	No specific data.
	MBS Transfection Kit Solution 2	No specific data.
	MBS Transfection Kit Solution 3	No specific data.
	pCMV β -Gal Control Plasmid	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: MBS Transfection Kit Solution 1	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	MBS Transfection Kit Solution 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.
	MBS Transfection Kit Solution 3	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
	pCMV β -Gal Control Plasmid	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: MBS Transfection Kit Solution 1	No specific treatment.
	MBS Transfection Kit Solution 2	No specific treatment.
	MBS Transfection Kit Solution 3	No specific treatment.
	pCMV β -Gal Control Plasmid	No specific treatment.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media	: MBS Transfection Kit Solution 1	Use an extinguishing agent suitable for the surrounding fire.
	MBS Transfection Kit Solution 2	Use an extinguishing agent suitable for the surrounding fire.
	MBS Transfection Kit Solution 3	Use an extinguishing agent suitable for the surrounding fire.
	pCMV β -Gal Control Plasmid	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: MBS Transfection Kit Solution 1	None known.
	MBS Transfection Kit Solution 2	None known.
	MBS Transfection Kit Solution 3	None known.
	pCMV β -Gal Control Plasmid	None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: MBS Transfection Kit Solution 1	In a fire or if heated, a pressure increase will occur and the container may burst.
	MBS Transfection Kit Solution 2	In a fire or if heated, a pressure increase will occur and the container may burst.
	MBS Transfection Kit Solution 3	In a fire or if heated, a pressure increase will occur and the container may burst.
	pCMV β -Gal Control Plasmid	In a fire or if heated, a pressure increase will occur and the container may burst.

SECTION 5: Firefighting measures

Hazardous combustion products	: MBS Transfection Kit Solution 1	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	MBS Transfection Kit Solution 2	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides
	MBS Transfection Kit Soltuion 3	Decomposition products may include the following materials: carbon dioxide carbon monoxide
	pCMV β-Gal Control Plasmid	No specific data.
5.3 Advice for firefighters		
Special precautions for fire-fighters	: MBS 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.
	MBS 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.
	MBS Transfection Kit Soltuion 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.
	pCMV 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	: MBS 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.
	MBS 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.
	MBS Transfection Kit Soltuion 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.
	pCMV 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 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	:	MBS 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 spilled material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
		MBS 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 spilled material. Put on appropriate personal protective equipment.
		MBS 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 spilled material. Put on appropriate personal protective equipment.
		pCMV 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 spilled material. Put on appropriate personal protective equipment.
For emergency responders	:	MBS 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".
		MBS 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".
		MBS 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".
		pCMV 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".
6.2 Environmental precautions	:	MBS Transfection Kit Solution 1	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
		MBS Transfection Kit Solution 2	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
		MBS Transfection Kit Solution 3	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
		pCMV β -Gal Control Plasmid	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

SECTION 6: Accidental release measures

Methods for cleaning up	: MBS 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.
	MBS 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.
	MBS 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.
	pCMV 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.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Protective measures	: MBS 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.
	MBS Transfection Kit Solution 2	Put on appropriate personal protective equipment (see Section 8).
	MBS Transfection Kit Solution 3	Put on appropriate personal protective equipment (see Section 8).
	pCMV β -Gal Control Plasmid	Put on appropriate personal protective equipment (see Section 8).
Advice on general occupational hygiene	: MBS 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.
	MBS 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.
	MBS 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.
	pCMV 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 7: Handling and storage

Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Storage	: MBS 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.
	MBS Transfection Kit Solution 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.
	MBS Transfection Kit Soltuion 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.
	pCMV 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.

7.3 Specific end use(s)

Recommendations	: MBS Transfection Kit Solution 1	Industrial applications, Professional applications.
	MBS Transfection Kit Solution 2	Industrial applications, Professional applications.
	MBS Transfection Kit Soltuion 3	Industrial applications, Professional applications.
	pCMV β -Gal Control Plasmid	Industrial applications, Professional applications.
Industrial sector specific solutions	: MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Not applicable.
	MBS Transfection Kit Soltuion 3	Not applicable.
	pCMV β -Gal Control Plasmid	Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
MBS Transfection Kit Soltuion 3 Ethanol	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m ³ 8 hours.

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.

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	:	MBS Transfection Kit Solution 1	Liquid.
		MBS Transfection Kit Solution 2	Liquid.
		MBS Transfection Kit Soltuion 3	Liquid.
		pCMV β -Gal Control Plasmid	Liquid.
Colour	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Soltuion 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.
Odour	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Soltuion 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.
Odour threshold	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Soltuion 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.
pH	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	6.95
		MBS Transfection Kit Soltuion 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.
Melting point/freezing point	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	0°C
		MBS Transfection Kit Soltuion 3	Not available.
		pCMV β -Gal Control Plasmid	0°C

SECTION 9: Physical and chemical properties

Initial boiling point and boiling range	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	100°C
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	100°C
Flash point	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Evaporation rate	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Flammability (solid, gas)	: MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Not applicable.
	MBS Transfection Kit Soltuion 3	Not applicable.
	pCMV β -Gal Control Plasmid	Not applicable.
Upper/lower flammability or explosive limits	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Vapour pressure	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Vapour density	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.

SECTION 9: Physical and chemical properties

Relative density	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Solubility(ies)	: MBS Transfection Kit Solution 1	Soluble in the following materials: cold water and hot water.
	MBS Transfection Kit Solution 2	Easily soluble in the following materials: cold water and hot water.
	MBS Transfection Kit Soltuion 3	Easily soluble in the following materials: cold water and hot water.
	pCMV β -Gal Control Plasmid	Easily soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Auto-ignition temperature	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Decomposition temperature	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Viscosity	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.
Explosive properties	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.

SECTION 9: Physical and chemical properties

Oxidising properties	: MBS Transfection Kit Solution 1	Not available.
	MBS Transfection Kit Solution 2	Not available.
	MBS Transfection Kit Soltuion 3	Not available.
	pCMV β -Gal Control Plasmid	Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: MBS Transfection Kit Solution 1	No specific test data related to reactivity available for this product or its ingredients.
	MBS Transfection Kit Solution 2	No specific test data related to reactivity available for this product or its ingredients.
	MBS Transfection Kit Soltuion 3	No specific test data related to reactivity available for this product or its ingredients.
	pCMV β -Gal Control Plasmid	No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability	: MBS Transfection Kit Solution 1	The product is stable.
	MBS Transfection Kit Solution 2	The product is stable.
	MBS Transfection Kit Soltuion 3	The product is stable.
	pCMV β -Gal Control Plasmid	The product is stable.

10.3 Possibility of hazardous reactions	: MBS Transfection Kit Solution 1	Under normal conditions of storage and use, hazardous reactions will not occur.
	MBS Transfection Kit Solution 2	Under normal conditions of storage and use, hazardous reactions will not occur.
	MBS Transfection Kit Soltuion 3	Under normal conditions of storage and use, hazardous reactions will not occur.
	pCMV β -Gal Control Plasmid	Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid	: MBS Transfection Kit Solution 1	No specific data.
	MBS Transfection Kit Solution 2	No specific data.
	MBS Transfection Kit Soltuion 3	No specific data.
	pCMV β -Gal Control Plasmid	No specific data.

10.5 Incompatible materials	: MBS Transfection Kit Solution 1	May react or be incompatible with oxidising materials.
	MBS Transfection Kit Solution 2	May react or be incompatible with oxidising materials.
	MBS Transfection Kit Soltuion 3	May react or be incompatible with oxidising materials.
	pCMV β -Gal Control Plasmid	May react or be incompatible with oxidising materials.

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV β -Gal Control Plasmid	Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
MBS 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
MBS 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	-

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
MBS 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

: MBS Transfection Kit Solution 1	Routes of entry anticipated: Oral, Dermal, Inhalation.
MBS Transfection Kit Solution 2	Routes of entry anticipated: Oral, Dermal, Inhalation.
MBS Transfection Kit Soltuion 3	Routes of entry anticipated: Oral, Dermal, Inhalation.
pCMV β -Gal Control Plasmid	Not available.

Potential acute health effects

SECTION 11: Toxicological information

Inhalation	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Ingestion	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Skin contact	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Eye contact	:	MBS Transfection Kit Solution 1	Causes serious eye irritation.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
		pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation	:	MBS Transfection Kit Solution 1	No specific data.
		MBS Transfection Kit Solution 2	No specific data.
		MBS Transfection Kit Solution 3	No specific data.
		pCMV β -Gal Control Plasmid	No specific data.
Ingestion	:	MBS Transfection Kit Solution 1	No specific data.
		MBS Transfection Kit Solution 2	No specific data.
		MBS Transfection Kit Solution 3	No specific data.
		pCMV β -Gal Control Plasmid	No specific data.
Skin contact	:	MBS Transfection Kit Solution 1	No specific data.
		MBS Transfection Kit Solution 2	No specific data.
		MBS Transfection Kit Solution 3	No specific data.
		pCMV β -Gal Control Plasmid	No specific data.

SECTION 11: Toxicological information

Eye contact	: MBS Transfection Kit Solution 1	Adverse symptoms may include the following: pain or irritation watering redness
	MBS Transfection Kit Solution 2	No specific data.
	MBS Transfection Kit Solution 3	No specific data.
	pCMV 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

General	: MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
	pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Carcinogenicity	: MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
	pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Mutagenicity	: MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
	pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.
Teratogenicity	: MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
	MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
	pCMV β -Gal Control Plasmid	No known significant effects or critical hazards.

SECTION 11: Toxicological information

Developmental effects	: MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
	: MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
	: MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
	: pCMV β-Gal Control Plasmid	No known significant effects or critical hazards.
Fertility effects	: MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
	: MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
	: MBS Transfection Kit Solution 3	No known significant effects or critical hazards.
	: pCMV β-Gal Control Plasmid	No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
MBS Transfection Kit Solution 1 Calcium chloride (CaCl ₂), dihydrate	Acute EC50 2900 mg/l Fresh water	Algae	72 hours
	Acute NOEC 2000 mg/l Fresh water	Daphnia	48 hours
MBS Transfection Kit Solution 2 Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 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.

12.3 Bioaccumulative potential

Not available.

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.

SECTION 12: Ecological information

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

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

Hazardous waste : 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

Regulatory 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	MBS Transfection Kit Solution 1	Not applicable.
	MBS Transfection Kit Solution 2	Not applicable.
	MBS Transfection Kit Solution 3	Not applicable.
	pCMV β-Gal Control Plasmid	Not applicable.

Other EU regulations

Europe inventory : Not determined.

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

SECTION 15: Regulatory information

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Japan	: Japan inventory (ENCS) : Not determined. Japan inventory (ISHL) : Not determined.
Malaysia	: Not determined.
New Zealand	: Not determined.
Philippines	: Not determined.
Republic of Korea	: Not determined.
Taiwan	: Not determined.
Turkey	: Not determined.
United States	: 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
MBS Transfection Kit Solution 1 Eye Irrit. 2, H319	Calculation method

Full text of abbreviated H statements

SECTION 16: Other information

<p>MBS Transfection Kit Solution 1 H319</p>	<p>Causes serious eye irritation.</p>
<p>MBS Transfection Kit Solution 2 H315 H319 H335</p>	<p>Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.</p>
<p>MBS Transfection Kit Soltuion 3 H225</p>	<p>Highly flammable liquid and vapour.</p>

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

<p>MBS Transfection Kit Solution 1 Eye Irrit. 2, H319</p>	<p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2</p>
<p>MBS Transfection Kit Solution 2 Eye Irrit. 2, H319 Skin Irrit. 2, H315 STOT SE 3, H335</p>	<p>SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 SKIN CORROSION/IRRITATION - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Respiratory tract irritation) - Category 3</p>
<p>MBS Transfection Kit Soltuion 3 Flam. Liq. 2, H225</p>	<p>FLAMMABLE LIQUIDS - Category 2</p>

Date of issue/ Date of revision : 30/09/2016

Date of previous issue : No previous validation.

Version : 1

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