

SAFETY DATA SHEET



MBS Mammalian Transfection Kit, Part Number 200388

Section 1. Identification

1.1 Product identifier

Product name : MBS Mammalian Transfection Kit, Part Number 200388
Part No. (Chemical Kit) : 200388
Part No. : MBS Transfection Kit Solution 1 200388-51
 MBS Transfection Kit Solution 2 200388-52
 MBS Transfection Kit Soltuion 3 200388-53
 pCMV β-Gal Control Plasmid 200388-54
Validation date : 9/30/2016

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

Material 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 µg 1 µg/µl)

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

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

Section 2. Hazards identification

2.1 Classification of the substance or mixture


OSHA/HCS status	: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.
	MBS Transfection Kit Soltuion 3 pCMV β-Gal Control Plasmid	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

MBS Transfection Kit Solution 1
 H319 EYE IRRITATION - Category 2A

MBS Transfection Kit Soltuion 3
 H373 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (liver) - Category 2

Section 2. Hazards identification

Ingredients of unknown toxicity	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3	Percentage of the mixture consisting of ingredient (s) of unknown toxicity: 37% 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%
2.2 GHS label elements		
Hazard pictograms	<input checked="" type="checkbox"/> 	
Signal word	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3 <input type="checkbox"/> pCMV β -Gal Control Plasmid	Warning No signal word. Warning No signal word.
Hazard statements	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3 <input type="checkbox"/> pCMV β -Gal Control Plasmid	GHS SYMBOL - Exclamation mark - H319 - Causes serious eye irritation. No known significant effects or critical hazards. GHS SYMBOL - Health hazard - H373 - May cause damage to organs through prolonged or repeated exposure. (liver) No known significant effects or critical hazards.
Precautionary statements		
Prevention	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3 <input type="checkbox"/> pCMV β -Gal Control Plasmid	P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling. Not applicable. P260 - Do not breathe vapor. Not applicable.
Response	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3 <input type="checkbox"/> pCMV β -Gal Control Plasmid	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention. Not applicable. P314 - Get medical attention if you feel unwell. Not applicable.
Storage	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3 <input type="checkbox"/> pCMV β -Gal Control Plasmid	Not applicable. Not applicable. Not applicable. Not applicable.
Disposal	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3 <input type="checkbox"/> pCMV β -Gal Control Plasmid	Not applicable. Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. Not applicable.
Supplemental label elements	<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 <input type="checkbox"/> MBS Transfection Kit Solution 2 <input type="checkbox"/> MBS Transfection Kit Solutuion 3 <input type="checkbox"/> pCMV β -Gal Control Plasmid	None known. None known. None known. None known.

2.3 Other hazards

Section 2. Hazards identification

Hazards not otherwise classified	:	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

Substance/mixture	:	MBS Transfection Kit Solution 1	Mixture
		MBS Transfection Kit Solution 2	Mixture
		MBS Transfection Kit Soltuion 3	Mixture
		pCMV β -Gal Control Plasmid	Mixture

Ingredient name	%	CAS number
MBS Transfection Kit Solution 1 Calcium chloride (CaCl ₂), dihydrate	≥25 - ≤50	10035-04-8
MBS Transfection Kit Solution 2 Sodium chloride	≤3	7647-14-5
2-[bis(2-Hydroxyethyl)amino]ethanesulphonic acid	≤3	10191-18-1
MBS Transfection Kit Soltuion 3 Ethanol	≤3	64-17-5

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

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

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. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell.
		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.

Section 4. First aid measures

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 person may need to be kept under medical surveillance for 48 hours.
	MBS Transfection Kit Soltuion 3	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 following exposure or if feeling unwell. 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.
	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 Soltuion 3	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention following exposure or if feeling unwell. Wash clothing before reuse. Clean shoes thoroughly before reuse.
	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

Section 4. First aid measures

		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 Solutuion 3		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 following exposure or if feeling unwell. 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.
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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

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

Section 4. First aid measures

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 Soltuion 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 Soltuion 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 Soltuion 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 Soltuion 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 Soltuion 3	No specific data.
	pCMV β -Gal Control Plasmid	No specific data.

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

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 Soltuion 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 Soltuion 3	No specific treatment.
	pCMV β -Gal Control Plasmid	No specific treatment.

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 Soltuion 3	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.
	pCMV β -Gal Control Plasmid	No action shall be taken involving any personal risk or without suitable training.

Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Fire-fighting 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

Specific hazards arising from the chemical	: 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.
Hazardous thermal decomposition 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 Solution 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 protective actions 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 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

Section 5. Fire-fighting measures

	pCMV β -Gal Control Plasmid	without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
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.
	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.
	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.
	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.

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 vapor 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 Soltuion 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. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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.

Section 6. Accidental release measures

For emergency responders	: MBS Transfection Kit Solution 1	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	MBS Transfection Kit Solution 2	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	MBS Transfection Kit Soltuion 3	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
	pCMV β -Gal Control Plasmid	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
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 Soltuion 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 materials for containment and cleaning up		
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 Soltuion 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

Section 6. Accidental release measures

area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 Precautions for safe handling

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 vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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). Do not breathe vapor or mist. Do not ingest. Avoid contact with eyes, skin and clothing. 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.

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 8 for additional information on hygiene measures.


Section 7. Handling and storage

7.2 Conditions for safe storage, including any incompatibilities


:  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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.
MBS 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 unlabeled 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 unlabeled 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 Solution 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 Solution 3	Not applicable.
pCMV β -Gal Control Plasmid	Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
MBS Transfection Kit Solution 1 Calcium chloride (CaCl ₂), dihydrate	None.
MBS Transfection Kit Solution 2 Sodium chloride 2-[bis(2-Hydroxyethyl)amino]ethanesulphonic acid	None. None.
MBS Transfection Kit Soltuion 3 Ethanol	ACGIH TLV (United States, 3/2016). STEL: 1000 ppm 15 minutes. OSHA PEL 1989 (United States, 3/1989). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours. NIOSH REL (United States, 10/2013). TWA: 1000 ppm 10 hours. TWA: 1900 mg/m ³ 10 hours. OSHA PEL (United States, 2/2013). TWA: 1000 ppm 8 hours. TWA: 1900 mg/m ³ 8 hours.

8.2 Exposure controls

Appropriate engineering controls

- ☑ If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

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

Individual protection measures

Hygiene measures

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

Eye/face protection

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

Section 8. Exposure controls/personal protection

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

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	:	MBS Transfection Kit Solution 1	Liquid.
		MBS Transfection Kit Solution 2	Liquid.
		MBS Transfection Kit Solution 3	Liquid.
		pCMV β -Gal Control Plasmid	Liquid.
Color	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Solution 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.
Odor	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Solution 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.
Odor threshold	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Solution 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 Solution 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.
Melting point	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	0°C (32°F)
		MBS Transfection Kit Solution 3	Not available.
		pCMV β -Gal Control Plasmid	0°C (32°F)
Boiling point	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	100°C (212°F)
		MBS Transfection Kit Solution 3	Not available.
		pCMV β -Gal Control Plasmid	100°C (212°F)
Flash point	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Solution 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 Solution 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 Solution 3	Not applicable.
		pCMV β -Gal Control Plasmid	Not applicable.
Lower and upper explosive (flammable) limits	:	MBS Transfection Kit Solution 1	Not available.
		MBS Transfection Kit Solution 2	Not available.
		MBS Transfection Kit Solution 3	Not available.
		pCMV β -Gal Control Plasmid	Not available.

Section 9. Physical and chemical properties

Vapor 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.
Vapor 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.
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	: 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.

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.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> 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	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1	May react or be incompatible with oxidizing materials.
	MBS Transfection Kit Solution 2	May react or be incompatible with oxidizing materials.
	MBS Transfection Kit Soltuion 3	May react or be incompatible with oxidizing materials.
	pCMV β -Gal Control Plasmid	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	MBS Transfection Kit Solution 2	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	MBS Transfection Kit Soltuion 3	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	pCMV 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
<input checked="" type="checkbox"/> MBS Transfection Kit Solution 2 Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
MBS Transfection Kit Soltuion 3 Ethanol	LC50 Inhalation Vapor LD50 Oral	Rat Rat	124700 mg/m ³ 7 g/kg	4 hours -

Irritation/Corrosion

Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
MBS Transfection Kit Solution 2 Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams 10 milligrams 24 hours 500 milligrams	-
	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-		-
MBS Transfection Kit Soltuion 3 Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams 0.066666667 minutes 100 milligrams 100 microliters 400 milligrams 24 hours 20 milligrams	-
	Eyes - Moderate irritant	Rabbit	-		-
	Eyes - Moderate irritant	Rabbit	-		-
	Skin - Mild irritant	Rabbit	-		-
	Skin - Moderate irritant	Rabbit	-		-

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

Product/ingredient name	OSHA	IARC	NTP
MBS Transfection Kit Soltuion 3 Ethanol	-	1	-

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

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
MBS Transfection Kit Soltuion 3 Ethanol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Section 11. Toxicological information

Name	Category	Route of exposure	Target organs
MBS Transfection Kit Soltuion 3 Ethanol	Category 2	Not determined	liver

Aspiration hazard

Not available.

Information on the 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

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Section 11. Toxicological information

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

General	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solutuion 3 pCMV β -Gal Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. May cause damage to organs through prolonged or repeated exposure. No known significant effects or critical hazards.
Carcinogenicity	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solutuion 3 pCMV β -Gal Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solutuion 3 pCMV β -Gal Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solutuion 3 pCMV β -Gal Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solutuion 3 pCMV β -Gal Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: <input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solutuion 3 pCMV β -Gal Control Plasmid	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
<input checked="" type="checkbox"/> MBS Transfection Kit Solution 2 Oral	187500 mg/kg

Section 12. Ecological information

12.1 Toxicity

Section 12. Ecological information

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
MBS Transfection Kit Solution 3 Ethanol	Acute EC50 17.921 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Acute EC50 2000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 25500 µg/l Marine water	Crustaceans - Artemia franciscana - Larvae	48 hours
	Acute LC50 42000 µg/l Fresh water	Fish - Oncorhynchus mykiss	4 days
	Chronic NOEC 4.995 mg/l Marine water	Algae - Ulva pertusa	96 hours
	Chronic NOEC 100 µl/L Fresh water	Daphnia - Daphnia magna - Neonate	21 days
	Chronic NOEC 0.375 µl/L Fresh water	Fish - Gambusia holbrooki - Larvae	12 weeks

12.2 Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
MBS Transfection Kit Solution 3 Ethanol	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
MBS Transfection Kit Solution 3 Ethanol	-0.35	0.5	low

12.4 Mobility in soil

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

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

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

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

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

Section 14. Transport information

Regulatory information

DOT / IMDG / IATA : Not regulated.

Section 15. Regulatory information

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

U.S. Federal regulations : **United States inventory (TSCA 8b)**: Not determined.
Clean Water Act (CWA) 311: Edetic acid; Disodium hydrogenorthophosphate

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

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Section 15. Regulatory information

Classification : Immediate (acute) health hazard
 Delayed (chronic) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
<input checked="" type="checkbox"/> MBS Transfection Kit Solution 1 Calcium chloride (CaCl ₂), dihydrate	≥25 - ≤50	No.	No.	No.	Yes.	No.
MBS Transfection Kit Solution 2 Sodium chloride	≤3	No.	No.	No.	Yes.	No.
2-[bis(2-Hydroxyethyl)amino]ethanesulphonic acid	≤3	No.	No.	No.	Yes.	No.
MBS Transfection Kit Soltuion 3 Ethanol	≤3	Yes.	No.	No.	Yes.	Yes.

State regulations

Massachusetts : None of the components are listed.

New York : None of the components are listed.

New Jersey : None of the components are listed.

Pennsylvania : None of the components are listed.

California Prop. 65

No products were found.

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 inventory : Not determined.

China : Not determined.

Europe : Not determined.

Japan : **Japan inventory (ENCS)**: Not determined.
 Japan inventory (ISHL): Not determined.

Malaysia : Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Section 15. Regulatory information

Republic of Korea : Not determined.
Taiwan : Not determined.
Turkey : Not determined.

Section 16. Other information

History

Date of issue : 09/30/2016
Date of previous issue : 09/10/2014.
Version : 5

Indicates information that has changed from previously issued version.

Notice to reader

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.