SAFETY DATA SHEET



MBS Mammalian Transfection Kit, Part Number 200388

Section 1. Identification

1.1 Product identifier

: MBS Mammalian Transfection Kit, Part Number 200388 **Product name**

: 200388 Part no. (chemical kit)

: MBS Transfection Kit Solution 1 Part no. 200388-51

> MBS Transfection Kit Solution 2 200388-52 MBS Transfection Kit Soltuion 3 200388-53 200388-54 pCMV ß-Gal Control Plasmid

3/28/2024 Validation date

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 80 ml MBS Transfection Kit Soltuion 3

pCMV ß-Gal Control Plasmid 0.04 ml (40 µg $1 \mu g/\mu l$)

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

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). pCMV ß-Gal Control Plasmid 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

Percentage of the mixture consisting of ingredient (s) of unknown hazards to the aquatic environment: 98.8%

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Section 2. Hazards identification

2.2 GHS label elements

Hazard pictograms : MBS Transfection Kit Solution 1



Signal word

: MBS Transfection Kit Solution 1 Warning MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid

No signal word. Warning No signal word.

Hazard statements

: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid

H319 - 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.

Precautionary statements

Prevention

P280 - Wear eye or face protection. : MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 Not applicable. MBS Transfection Kit Soltuion 3 Not applicable. pCMV ß-Gal Control Plasmid

Not applicable.

P305 + P351 + P338 - IF IN EYES: Rinse

Response

: MBS Transfection Kit Solution 1

cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsina.

P337 + P313 - If eye irritation persists: Get medical

advice or attention.

MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid : MBS Transfection Kit Solution 1

Not applicable. Not applicable. Not applicable. Not applicable.

Storage

MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid

Not applicable. Not applicable. Not applicable.

Disposal

: MBS Transfection Kit Solution 1 Not applicable. Not applicable. MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 Not applicable. Not applicable. pCMV ß-Gal Control Plasmid MBS Transfection Kit Solution 1 None known. MBS Transfection Kit Solution 2 None known.

Supplemental label elements

MBS Transfection Kit Soltuion 3

Avoid contact with skin and clothing. Wash

thoroughly after handling.

pCMV ß-Gal Control Plasmid None known.

2.3 Other hazards

Hazards not otherwise classified

: MBS Transfection Kit Solution 1 None known. MBS Transfection Kit Solution 2 None known.

MBS Transfection Kit Soltuion 3 Prolonged or repeated contact may dry skin and

cause irritation.

pCMV ß-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 ß-Gal Control Plasmid Mixture

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Section 3. Composition/information on ingredients

Ingredient name	%	CAS number	
MBS Transfection Kit Solution 1			
Calcium chloride (CaCl2), dihydrate	≥25 - ≤50	10035-04-8	
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 and hence require reporting in this section.

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

Section 4. First aid measures

Section 4. Firs	st aid measures	
4.1 Description of nec	essary 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.
	pCMV ß-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 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

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Section 4. First aid measures

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. 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.

pCMV ß-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 W

Wash skin thoroughly with soap and water or use recognized skin cleanser. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse.

pCMV ß-Gal Control Plasmid

Clean shoes thoroughly before reuse. 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. 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

tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

MBS Transfection Kit Soltuion 3

Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs.

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Section 4. First aid measures

pCMV ß-Gal Control Plasmid

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

4.2 Most important symptoms/effects, acute and delayed

Potential acute	<u>neaith effects</u>	
Eye contact		MBS Transfed

: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3

pCMV ß-Gal Control Plasmid

: MBS Transfection Kit Solution 1

MBS Transfection Kit Solution 1
MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid

Skin contact : MBS Transfection Kit Solution 1

MBS Transfection Kit Solution 2

MBS Transfection Kit Soltuion 3

pCMV ß-Gal Control Plasmid

: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-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. No known significant effects or critical hazards.

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

No known significant effects or critical nazards. No known significant effects or critical hazards. Defatting to the skin. May cause skin dryness and irritation.

No known significant effects or critical hazards.

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

Over-exposure signs/symptoms

Inhalation

Ingestion

Inhalation

Skin contact

Ingestion

Eye contact: MBS Transfection Kit Solution 1

Adverse symptoms may include the following: pain or irritation

watering redness

MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid

MBS Transfection Kit Solution 1
MBS Transfection Kit Solution 1
MBS Transfection Kit Solution 2

No specific data.
No specific data.
No specific data.

MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid
No specific data.

MBS Transfection Kit Soltuion 3 Adverse symptoms may include the following:

irritation dryness cracking

pCMV ß-Gal Control Plasmid

No specific data.

MBS Transfection Kit Solution 1

MBS Transfection Kit Solution 2

MBS Transfection Kit Solution 3

No specific data.

No specific data.

pCMV ß-Gal Control Plasmid No specific data.

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Section 4. First aid measures

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

: MBS Transfection Kit Solution 1 Treat symptomatically. Contact poison treatment Notes to physician specialist immediately if large quantities have been

ingested or inhaled.

In case of inhalation of decomposition products in a MBS Transfection Kit Solution 2

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

MBS Transfection Kit Soltuion 3 In case of inhalation of decomposition products in a

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

pCMV ß-Gal Control Plasmid Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

: MBS Transfection Kit Solution 1 No specific treatment. **Specific treatments** MBS Transfection Kit Solution 2 No specific treatment.

MBS Transfection Kit Soltuion 3 No specific treatment. pCMV ß-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 ß-Gal Control Plasmid No action shall be taken involving any personal risk

or without suitable training.

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.

Use an extinguishing agent suitable for the MBS Transfection Kit Soltuion 3

surrounding fire.

Use an extinguishing agent suitable for the pCMV ß-Gal Control Plasmid

surrounding fire.

Unsuitable extinguishing

media

: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2

MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid

None known. None known. None known.

None known.

5.2 Special hazards arising from the substance or mixture

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Section 5. Fire-fighting measures

Specific hazards arising		n a fire or if heated, a pressure increase will occur
from the chemical	MBS Transfection Kit Solution 2 Ir	nd the container may burst. n a fire or if heated, a pressure increase will occur nd the container may burst.
	MBS Transfection Kit Soltuion 3 Ir	n a fire or if heated, a pressure increase will occur
	pCMV ß-Gal Control Plasmid Ir	nd the container may burst. n a fire or if heated, a pressure increase will occur nd the container may burst.
Hazardous thermal decomposition products	m h	ecomposition products may include the following naterials: alogenated compounds netal oxide/oxides
	MBS Transfection Kit Solution 2 D m ca ca n	lecomposition products may include the following naterials: arbon dioxide arbon monoxide itrogen oxides ulfur oxides
	m MBS Transfection Kit Soltuion 3 D m ca ca n	alogenated compounds netal oxide/oxides necomposition products may include the following naterials: narbon dioxide narbon monoxide itrogen oxides ulfur oxides
	p	hosphorus oxides lo specific data.
5.3 Advice for firefighters Special protective actions for fire-fighters	fr a	romptly isolate the scene by removing all persons om the vicinity of the incident if there is a fire. No ction shall be taken involving any personal risk or
	MBS Transfection Kit Solution 2 P fr a	rithout suitable training. romptly isolate the scene by removing all persons om the vicinity of the incident if there is a fire. No ction shall be taken involving any personal risk or rithout suitable training.
	MBS Transfection Kit Soltuion 3 P fr a	romptly isolate the scene by removing all persons om the vicinity of the incident if there is a fire. No ction shall be taken involving any personal risk or rithout suitable training.
	pCMV ß-Gal Control Plasmid P fr a	romptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No ction shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	e (\$	ire-fighters should wear appropriate protective quipment and self-contained breathing apparatus SCBA) with a full face-piece operated in positive ressure mode.
	MBS Transfection Kit Solution 2 F e (\$	ire-fighters should wear appropriate protective quipment and self-contained breathing apparatus SCBA) with a full face-piece operated in positive ressure mode.
	MBS Transfection Kit Soltuion 3 F e (\$	ire-fighters should wear appropriate protective quipment and self-contained breathing apparatus SCBA) with a full face-piece operated in positive ressure mode.
		ire-fighters should wear appropriate protective

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Section 5. Fire-fighting measures

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
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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. No action shall be taken involving any personal

MBS Transfection Kit Soltuion 3 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 ß-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.

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

For emergency responders: MBS Transfection Kit Solution 1

MBS Transfection Kit Solution 2

MBS Transfection Kit Soltuion 3

the information in "For non-emergency personnel". 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". 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". 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".

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Section 6. Accidental release measures

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 ß-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 ß-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.

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

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Section 7. Handling and storage

MBS Transfection Kit Soltuion 3

Put on appropriate personal protective equipment (see Section 8).

(see Section 8).

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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

contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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

MBS Transfection Kit Soltuion 3

contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. 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. Eating, drinking and smoking should be prohibited

pCMV ß-Gal Control Plasmid

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

: 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. See Section 10 for incompatible materials before handling or use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a

MBS Transfection Kit Solution 2

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

original container protected from direct sunlight in a dry, cool and well-ventilated area, away from

MBS Transfection Kit Soltuion 3

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Section 7. Handling and storage

pCMV ß-Gal Control Plasmid

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

7.3 Specific end use(s)

Recommendations

: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial sector specific solutions

MBS Transfection Kit Solution 1
MBS Transfection Kit Solution 2
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pCMV ß-Gal Control Plasmid

Not available. Not available. Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
MBS Transfection Kit Solution 1	
Calcium chloride (CaCl2), dihydrate	None.
MBS Transfection Kit Soltuion 3	
Ethanol	ACGIH TLV (United States, 1/2023).
	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, 10/2020).
	TWA: 1000 ppm 10 hours.
	TWA: 1900 mg/m³ 10 hours.
	OSHA PEL (United States, 5/2018).
	TWA: 1000 ppm 8 hours.
	TWA: 1900 mg/m³ 8 hours.
	CAL OSHA PEL (United States, 5/2018).
	TWA: 1900 mg/m³ 8 hours.
	TWA: 1000 ppm 8 hours.

Biological exposure indices

No exposure indices known.

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Section 8. Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls

Environmental exposure controls

- : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- : 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: safety glasses with sideshields.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Not available.

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 and safety characteristics

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

Appearance

Odor threshold

Physical state	: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Liquid. Liquid. Liquid. Liquid.
Color	: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Not available. Not available. Not available. Not available.
Odor	: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Not available. Not available. Not available. Not available.

MBS Transfection Kit Solution 2 Not available.

MBS Transfection Kit Solution 3 Not available.

: MBS Transfection Kit Solution 1

MBS Transfection Kit Soltuion 3 Not available. pCMV ß-Gal Control Plasmid Not available.

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Section 9. Physical and chemical properties and safety characteristics

pН MBS Transfection Kit Solution 1 Not available. MBS Transfection Kit Solution 2 6.95 MBS Transfection Kit Soltuion 3 Not available. pCMV ß-Gal Control Plasmid Not available. MBS Transfection Kit Solution 1 Melting point/freezing point Not available. MBS Transfection Kit Solution 2 0°C (32°F) MBS Transfection Kit Soltuion 3 Not available. pCMV ß-Gal Control Plasmid 0°C (32°F) **Boiling point, initial boiling** : MBS Transfection Kit Solution 1 Not available. MBS Transfection Kit Solution 2 100°C (212°F) point, and boiling range MBS Transfection Kit Soltuion 3 Not available. pCMV ß-Gal Control Plasmid 100°C (212°F) Flash point **Closed cup** Open cup Ingredient name °C °F Method °C °F Method **MBS** Transfection Kit Soltuion 3 49.5 Ethanol 9.7 Abel-Pensky : MBS Transfection Kit Solution 1 Not available. **Evaporation rate** MBS Transfection Kit Solution 2 Not available. MBS Transfection Kit Soltuion 3 Not available. pCMV ß-Gal Control Plasmid Not available. MBS Transfection Kit Solution 1 **Flammability** Not applicable.

Lower and upper explosion limit/flammability limit MBS Transfection Kit Solution 1
MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid
Not available.
Not available.

MBS Transfection Kit Solution 2

MBS Transfection Kit Soltuion 3

pCMV ß-Gal Control Plasmid

Vapor pressure

	Vapo	Vapor Pressure at 20°C			Vapor pressure at 50°C			
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method		
MBS Transfection Kit Solution 1								
water	17.5	2.3	-	92.258	12.3	-		
MBS Transfection Kit Solution 2								
water	17.5	2.3	-	92.258	12.3	-		
MBS Transfection Kit Soltuion 3								
Ethanol	42.94865	5.7	-	-	-	-		
pCMV ß-Gal Control Plasmid								
water	17.5	2.3	_	92.258	12.3	_		

Not applicable.

Not applicable.

Not applicable.

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Section 9. Physical and chemical properties and safety characteristics

Relative vapor density	:	MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2	Not av			-
		MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Not av Not av	/ailab	le.	
Relative density	:	MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3	Not av Not av	∕ailab ⁄ailab	le. le.	
Solubility(ies)	÷	pCMV ß-Gal Control Plasmid Media	Not av	Res		
Colubinity (163)	•	MBS Transfection Kit Solution	1	Res	Suit	
		water MBS Transfection Kit Solution		Solu	ıble	
		water MBS Transfection Kit Soltuion	3	Solu	ıble	
		water pCMV ß-Gal Control Plasmid		Solu	ıble	
		water		Solu	ıble	
Partition coefficient: n-octanol/water	:	MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Not ap Not ap Not ap Not ap	plica plica	ble. ble.	
Auto-ignition temperature	:	Ingredient name	°C		°F	Method
		MBS Transfection Kit Soltuion 3				
		Ethanol	455		851	DIN 51794
Decomposition temperature	:	MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Not av Not av Not av Not av	/ailab /ailab	le. le.	
Viscosity	:	MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Not av Not av Not av Not av	/ailab /ailab	le. le.	
Particle characteristics						
Median particle size	:	MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	Not ap Not ap Not ap Not ap	plica plica	ble. ble.	
Section 10. Stabilit	ty	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 ß-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 MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid	The product is stable. The product is stable. The product is stable. The product is stable.

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Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	BS Transfection Kit Solution 1 Under normal conditions of storage hazardous reactions will not occu	
	BS Transfection Kit Solution 2 Under normal conditions of storage	
	hazardous reactions will not occu	
	BS Transfection Kit Soltuion 3 Under normal conditions of storage hazardous reactions will not occu	
	CMV ß-Gal Control Plasmid Under normal conditions of storage hazardous reactions will not occur	
10.4 Conditions to avoid	BS Transfection Kit Solution 1 No specific data.	
	BS Transfection Kit Solution 2 No specific data.	
	BS Transfection Kit Soltuion 3 No specific data.	
	CMV ß-Gal Control Plasmid No specific data.	
10.5 Incompatible materials	BS Transfection Kit Solution 1 May react or be incompatible with materials.	oxidizing
	BS Transfection Kit Solution 2 May react or be incompatible with materials.	oxidizing
	BS Transfection Kit Soltuion 3 May react or be incompatible with materials.	oxidizing
	CMV ß-Gal Control Plasmid May react or be incompatible with materials.	oxidizing
10.6 Hazardous decomposition products	BS Transfection Kit Solution 1 Under normal conditions of storage hazardous decomposition produced.	
	BS Transfection Kit Solution 2 Under normal conditions of storage hazardous decomposition produced.	
	BS Transfection Kit Soltuion 3 Under normal conditions of storage hazardous decomposition produced.	
	CMV ß-Gal Control Plasmid Under normal conditions of storage hazardous decomposition produce	

Section 11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
MBS Transfection Kit Soltuion 3 Ethanol	LC50 Inhalation Vapor LD50 Oral		124700 mg/m³ 7 g/kg	4 hours

produced.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
MBS Transfection Kit Soltuion 3					
Ethanol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Eyes - Moderate irritant	Rabbit	-	0.066666667 minutes 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	100 uL	-

Sensitization

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Section 11. Toxicological information

Not available.

Mutagenicity

Conclusion/Summary :

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Classification

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

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure

: MBS Transfection Kit Solution 1

Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

MBS Transfection Kit Solution 2

Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

MBS Transfection Kit Soltuion 3

Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes.

Not available.

Potential acute health effects

Eye contact

: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2

pCMV ß-Gal Control Plasmid

Causes serious eye irritation.

MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid

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

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

MBS Transfection Kit Solution 2 MBS Transfection Kit Soltuion 3 pCMV \(\mathcal{B} \)-Gal Control Plasmid

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

No known significant effects or critical hazards. No known significant effects or critical hazards. Defatting to the skin. May cause skin dryness and

MBS Transfection Kit Soltuion 3

irritation.

No known significant effects or critical hazards.

Ingestion : MBS Transfection Kit Solution 1

MBS Transfection Kit Solution 2

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

MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid

pCMV ß-Gal Control Plasmid

No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

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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
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid

MBS Transfection Kit Solution 1

No specific data.
No specific data.
No specific data.

MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid
No specific data.
No specific data.
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 Adverse symptoms may include the following:

irritation dryness cracking

pCMV ß-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 2

MBS Transfection Kit Solution 2

Mo specific data.

No specific data.

No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Inhalation

Potential delayed effects : Not available.

Long term exposure

Potential immediate : Not available.

effects

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 Prolonged or repeated contact can defat the skin

and lead to irritation, cracking and/or dermatitis.

pCMV ß-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
MBS Transfection Kit Solution 3
PCMV ß-Gal Control Plasmid
No known significant effects or critical hazards.
No known significant effects or critical hazards.
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
MBS Transfection Kit Solution 3
MBS Transfection Kit Solution 3
PCMV ß-Gal Control Plasmid
No known significant effects or critical hazards.
No known significant effects or critical hazards.
No known significant effects or critical hazards.

Reproductive toxicity : MBS Transfection Kit Solution 1 No known significant effects or critical hazards.

MBS Transfection Kit Solution 2
MBS Transfection Kit Solution 3
pCMV ß-Gal Control Plasmid

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

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Section 11. Toxicological information

Product/ingredient name	(3	Dermal (mg/kg)		(vapors)	Inhalation (dusts and mists) (mg/ I)
MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 2	187500.0	N/A	N/A	N/A	N/A
MBS Transfection Kit Soltuion 3 Ethanol	7000	N/A	N/A	124.7	N/A

Other information : MBS Transfection Kit Solution 2 Adverse symptoms may include the following: May cause skin sensitization.

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
MBS Transfection Kit Solution 1			
Calcium chloride (CaCl2), dihydrate	Acute EC50 2900 mg/l Fresh water	Algae	72 hours
,	Acute NOEC 2000 mg/l Fresh water	Daphnia	48 hours
MBS Transfection Kit Soltuion 3			
Ethanol	Acute EC50 3306 mg/l Marine water Acute EC50 1074 mg/l Fresh water Acute EC50 2 mg/l Fresh water Acute LC50 11000000 µg/l Marine water Chronic NOEC 4.995 mg/l Marine water Chronic NOEC 100 ul/L Fresh water	Algae - Ulva pertusa Crustaceans - Cypris subglobosa Daphnia - Daphnia magna Fish - Alburnus alburnus Algae - Ulva pertusa Daphnia - Daphnia magna - Neonate	96 hours 48 hours 48 hours 96 hours 96 hours 21 days

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
MBS Transfection Kit Soltuion 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.

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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. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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

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

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

Section 14. Transport information

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

Special precautions for user : Transport within user's premises: always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in the

event of an accident or spillage.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

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

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

clean Water Act (CWA) 311: Edetic acid

Clean Air Act Section 112 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 : Not listed

Class I Substances

Clean Air Act Section 602 : Not listed

Class II Substances

DEA List I Chemicals : Not listed

(Precursor Chemicals)

DEA List II Chemicals : Not listed

(Essential Chemicals)

SARA 302/304

Composition/information on ingredients

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Section 15. Regulatory information

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

Classification : MBS Transfection Kit Solution 1 EYE IRRITATION - Category 2A

MBS Transfection Kit Solution 2 Not applicable.

MBS Transfection Kit Soltuion 3 HNOC - Defatting irritant

pCMV ß-Gal Control Plasmid Not applicable.

Composition/information on ingredients

Name	%	Classification
MBS Transfection Kit Solution 1 Calcium chloride (CaCl2), dihydrate	≥25 - ≤50	EYE IRRITATION - Category 2A
MBS Transfection Kit Soltuion 3 Ethanol	≤3	FLAMMABLE LIQUIDS - Category 2 EYE IRRITATION - Category 2A HNOC - Defatting irritant

State regulations

Massachusetts: None of the components are listed.New York: None of the components are listed.

New Jersey : The following components are listed: ETHYL ALCOHOL

Pennsylvania: None of the components are listed.

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : Not determined.

Canada : Not determined.

China : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.

Philippines : Not determined.

Republic of Korea : Not determined.

Taiwan : Not determined.

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Section 15. Regulatory information

Thailand : Not determined.

Turkey : Not determined.

United States : Not determined.

Viet Nam : Not determined.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
MBS Transfection Kit Solution 1	
EYE IRRITATION - Category 2A	Calculation method

History

Date of issue/Date of

revision

Date of previous issue

: 03/30/2021

: 8

: 03/28/2024

Version

Key to abbreviations

: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973

as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

✓ Indicates information that has changed from previously issued version.

Notice to reader

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