### SAFETY DATA SHEET



MBS Mammalian Transfection Kit, Part Number 200388

### **Section 1. Identification**

Product identifier : 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 ß-Gal Control Plasmid 200388-54

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

Identified uses : Malytical 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)

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd

679 Springvale Road

Mulgrave

Victoria 3170, Australia

1800 802 402

Emergency telephone number (with hours of

operation)

: CHEMTREC®: +(61)-290372994

### Section 2. Hazard(s) identification

#### Classification of the substance or mixture

MBS Transfection Kit Solution 1

H319 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A

MBS Transfection Kit Percentage of the mixture consisting of ingredient(s)

Soltuion 3 of unknown hazards to the aquatic environment:

98.8%

**GHS label elements** 

Hazard pictograms : MBS Transfection Kit

Solution 1



Signal word : MBS Transfection Kit WARNING

Solution 1

MBS Transfection Kit No signal word.

Solution 2

MBS Transfection Kit No signal word.

Soltuion 3

pCMV ß-Gal Control Plasmid No signal word.

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version : 8 1/20

### Section 2. Hazard(s) identification

Hazard statements : MBS Transfection Kit H319 - Causes serious eye irritation.

Solution 1

MBS Transfection Kit No known significant effects or critical hazards.

Solution 2

MBS Transfection Kit No known significant effects or critical hazards.

Soltuion 3

pCMV ß-Gal Control Plasmid No known significant effects or critical hazards.

**Precautionary statements** 

**Prevention**: MBS Transfection Kit P280 - Wear eye or face protection.

Solution 1

MBS Transfection Kit Not applicable.

Solution 2

MBS Transfection Kit Not applicable.

Soltuion 3

Solution 1

pCMV ß-Gal Control Plasmid Not applicable.

Response : MBS Transfection Kit 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

advice or attention.

MBS Transfection Kit Not applicable.

Solution 2

MBS Transfection Kit Not applicable.

Soltuion 3

pCMV ß-Gal Control Plasmid Not applicable.

Storage : MBS Transfection Kit Not applicable.

Solution 1

MBS Transfection Kit Not applicable.

Solution 2

MBS Transfection Kit Not applicable.

Soltuion 3

pCMV ß-Gal Control Plasmid Not applicable.

**Disposal** : MBS Transfection Kit Not applicable.

Solution 1 MBS Transfection Kit

MBS Transfection Kit Not applicable. Solution 2

Solution 2

MBS Transfection Kit Not applicable.

Soltuion 3

pCMV ß-Gal Control Plasmid Not applicable.

Supplemental label elements

result in classification

Additional warning : MBS Transfection Kit Not applicable.
phrases Solution 1

Ses Solution i

MBS Transfection Kit Not applicable.

Solution 2

MBS Transfection Kit Not applicable.

Soltuion 3

pCMV ß-Gal Control Plasmid Not applicable.

Other hazards which do not : MBS Transfection Kit

Solution 1

None known.

None known.

MBS Transfection Kit Solution 2

MBS Transfection Kit None known.

Soltuion 3

pCMV ß-Gal Control Plasmid None known.

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version : 8 2/20

### Section 3. Composition and ingredient information

Substance/mixture

: MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2 MBS Transfection Kit

Mixture

Mixture

Mixture

Soltuion 3

pCMV ß-Gal Control Plasmid Mixture

#### **CAS** number/other identifiers

Ingredient name	% (w/w)	CAS number
MBS Transfection Kit Solution 1		
Calcium chloride (CaCl2), dihydrate	≥30 - ≤60	10035-04-8
MBS Transfection Kit Soltuion 3		
Ethanol	≤3	64-17-5

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.

The total concentration of ingredients in this product, reported or not in this section, is 100%.

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

### Section 4. First aid measures

<b>—</b> • • • •		
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. Get

medical attention if irritation occurs.

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.

: 30/03/2021 Version: 8 Date of issue/Date of revision : 28/03/2024 Date of previous issue 3/20

### Section 4. First aid measures

MBS Transfection Kit

Soltuion 3

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept

under medical surveillance for 48 hours.

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

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

pCMV ß-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. 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

MBS Transfection Kit

Solution 2

Soltuion 3

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

personnel. Get medical attention if symptoms occur. 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. pCMV ß-Gal Control Plasmid 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.

### Most important symptoms/effects, acute and delayed

Potential acute health effects

**Eye contact** 

: MBS Transfection Kit

Solution 1

Causes serious eye irritation.

MBS Transfection Kit

Solution 2

No known significant effects or critical hazards.

MBS Transfection Kit

No known significant effects or critical hazards.

Soltuion 3

pCMV ß-Gal Control Plasmid No known significant effects or critical hazards.

Date of issue/Date of revision : 28/03/2024 : 30/03/2021 Version: 8 4/20 Date of previous issue

## Section 4. First aid measures

Section 4. First aid	J I	ileasules	
Inhalation	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Soltuion 3	No known significant effects or critical hazards.
			No known significant effects or critical hazards.
Skin contact	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Soltuion 3	No known significant effects or critical hazards.
			No known significant effects or critical hazards.
Ingestion	:	MBS Transfection Kit Solution 1	No known significant effects or critical hazards.
		MBS Transfection Kit Solution 2	No known significant effects or critical hazards.
		MBS Transfection Kit Soltuion 3	No known significant effects or critical hazards.
		•	No known significant effects or critical hazards.
Over-exposure signs/sympt	ton	<u>1S</u>	
Eye contact	:	MBS Transfection Kit Solution 1	Adverse symptoms may include the following:
			pain or irritation
			watering
		MBS Transfection Kit	redness No specific data.
		Solution 2	140 Specific data.
		MBS Transfection Kit Soltuion 3	No specific data.
		pCMV ß-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 ß-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 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 Soltuion 3	No specific data.
		nCMV/ Cal Control Diagnid	No aposific data

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

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version : 8 5/20

pCMV ß-Gal Control Plasmid No specific data.

Notes to physician	: MBS Transfection Kit	Treat symptomatically. Contact poison treatment
	Solution 1	specialist immediately if large quantities have been ingested or inhaled.
	MBS Transfection Kit	In case of inhalation of decomposition products in a
	Solution 2	fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
	MBS Transfection Kit	In case of inhalation of decomposition products in a
	Soltuion 3	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.
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 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	No action shall be taken involving any personal risk

See toxicological information (Section 11)

### Section 5. Firefighting measures

Extinau	iehi	na n	nedia

Suitable extinguishing media

: MBS Transfection Kit Solution 1

Use an extinguishing agent suitable for the surrounding fire.

MBS Transfection Kit

Use an extinguishing agent suitable for the

Solution 2

Soltuion 3

surrounding fire. Use an extinguishing agent suitable for the

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

MBS Transfection Kit Soltuion 3

surrounding fire.

pCMV ß-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

None known.

Solution 2

MBS Transfection Kit

None known.

Soltuion 3

pCMV ß-Gal Control Plasmid None known.

Specific hazards arising from the chemical

: MBS Transfection Kit

In a fire or if heated, a pressure increase will occur

and the container may burst.

Solution 1 MBS Transfection Kit In a fire or if heated, a pressure increase will occur

Solution 2 and the container may burst.

MBS Transfection Kit In a fire or if heated, a pressure increase will occur

Soltuion 3 and the container may burst.

pCMV ß-Gal Control Plasmid In a fire or if heated, a pressure increase will occur and the container may burst.

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version: 8 6/20

### Section 5. Firefighting measures

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

Soltuion 3

Decomposition products may include the following

materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides

pCMV ß-Gal Control Plasmid No specific data.

**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

Soltuion 3

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or without suitable training.

pCMV ß-Gal Control Plasmid Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No

action shall be taken involving any personal risk or

without suitable training.

**Special protective** equipment for fire-fighters : MBS Transfection Kit

Solution 1

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

(SCBA) with a full face-piece operated in positive

pressure mode.

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 ß-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

Personal precautions, protective equipment and emergency procedures

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version: 8 7/20

### Section 6. Accidental release measures

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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

MBS Transfection Kit Solution 2

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt 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 spilt material. 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 spilt material. Put on appropriate personal protective equipment.

For emergency responders : MBS Transfection Kit

Solution 1

Solution 2

MBS Transfection Kit

MBS Transfection Kit Soltuion 3

If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on

suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

pCMV ß-Gal Control Plasmid If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: MBS Transfection Kit

Solution 1

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

MBS Transfection Kit

Solution 2

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

MBS Transfection Kit

Soltuion 3

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

pCMV ß-Gal Control Plasmid

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

: 30/03/2021 Date of issue/Date of revision : 28/03/2024 Date of previous issue Version: 8 8/20

### Section 6. Accidental release measures

#### Methods and material 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

Precautions for safe handling

**Protective measures** 

: MBS Transfection Kit

Solution 1

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

Put on appropriate personal protective equipment

(see Section 8).

Put on appropriate personal protective equipment

(see Section 8).

pCMV ß-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.

Eating, drinking and smoking should be prohibited in

: 30/03/2021

areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove

MBS Transfection Kit Soltuion 3

Date of issue/Date of revision : 28/03/2024 Date of previous issue

Version: 8

9/20

### Section 7. Handling and storage

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

Conditions for safe storage, : MBS Transfection Kit including any incompatibilities

Solution 1

MBS Transfection Kit Solution 2

MBS Transfection Kit Soltuion 3

pCMV ß-Gal Control Plasmid

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

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version: 8 10/20

### Section 8. Exposure controls and personal protection

#### **Control parameters**

### Occupational exposure limits

Ingredient name	Exposure limits		
MBS Transfection Kit Soltuion 3 Ethanol	Safe Work Australia (Australia, 10/2022). TWA: 1880 mg/m³ 8 hours. TWA: 1000 ppm 8 hours.		

#### **Biological exposure indices**

No exposure indices known.

## 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 side-shields.

### **Skin protection**

**Hand protection** 

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

**Body protection** 

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

Other skin protection

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

Respiratory protection

: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## 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**

Physical state : MBS Transfection Kit Liquid.

Solution 1

MBS Transfection Kit Liquid.

Solution 2

MBS Transfection Kit Liquid.

Soltuion 3

pCMV ß-Gal Control Plasmid Liquid.

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version : 8 11/20

# Section 9. Physical and chemical properties and safety characteristics

Colour MBS Transfection Kit Not available. Solution 1 MBS Transfection Kit Not available. Solution 2 MBS Transfection Kit Not available. Soltuion 3 pCMV ß-Gal Control Plasmid Not available. **Odour** : MBS Transfection Kit Not available. Solution 1 MBS Transfection Kit Not available. Solution 2 MBS Transfection Kit Not available. Soltuion 3 pCMV ß-Gal Control Plasmid Not available. Odour threshold : MBS Transfection Kit Not available. Solution 1 MBS Transfection Kit Not available. Solution 2 MBS Transfection Kit Not available. Soltuion 3 pCMV ß-Gal Control Plasmid Not available. pH MBS Transfection Kit Not available. Solution 1 MBS Transfection Kit 6.95 Solution 2 Not available. MBS Transfection Kit Soltuion 3 pCMV ß-Gal Control Plasmid Not available. Melting point/freezing point : MBS Transfection Kit Not available. Solution 1 MBS Transfection Kit 0°C (32°F) Solution 2 MBS Transfection Kit Not available. Soltuion 3 pCMV ß-Gal Control Plasmid 0°C (32°F) **Boiling point, initial boiling** : MBS Transfection Kit Not available. Solution 1 point, and boiling range MBS Transfection Kit 100°C (212°F) Solution 2 MBS Transfection Kit Not available. Soltuion 3 pCMV ß-Gal Control Plasmid 100°C (212°F)

Flash point

	Closed cup				Open o	up
Ingredient name	°C	°F	Method	°C	°F	Method
MBS Transfection Kit Soltuion 3						
Ethanol	9.7	49.5	Abel- Pensky	-	-	-

**Evaporation rate**: MBS Transfection Kit Not available.

Solution 1

MBS Transfection Kit Not available.

Solution 2

MBS Transfection Kit Not available.

Soltuion 3

pCMV ß-Gal Control Plasmid Not available.

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version : 8 12/20

### Section 9. Physical and chemical properties and safety characteristics

**Flammability** MBS Transfection Kit Not applicable.

Solution 1

MBS Transfection Kit Not applicable.

Solution 2

MBS Transfection Kit Not applicable.

Soltuion 3

pCMV ß-Gal Control Plasmid Not applicable.

: MBS Transfection Kit Not available.

Solution 1

MBS Transfection Kit Not available.

Solution 2

MBS Transfection Kit Not available.

Soltuion 3

pCMV ß-Gal Control Plasmid Not available.

Vapour pressure

Lower and upper explosion

limit/flammability limit

	Vapou	ır Pressu	re at 20°C	Vapour 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	-	

Relative vapour density

MBS Transfection Kit

Not available.

Solution 1

Not available. MBS Transfection Kit

Solution 2

MBS Transfection Kit Not available.

Soltuion 3

pCMV ß-Gal Control Plasmid Not available.

MBS Transfection Kit **Relative density** 

Not available.

Solution 1

MBS Transfection Kit Not available.

Solution 2

MBS Transfection Kit Not available.

Soltuion 3

pCMV ß-Gal Control Plasmid Not available.

Date of issue/Date of revision : 30/03/2021 : 28/03/2024 Date of previous issue Version: 8 13/20

# Section 9. Physical and chemical properties and safety characteristics

:	Media		R	esult		
		on				
		on		oluble		
	water S			oluble		
	water	on		Soluble		
	l'	d				
		N				
•	Solution 1					
		N	ot applicable	<b>)</b> .		
	MBS Transfection Kit	N	ot applicable	<b>)</b> .		
		N	ot applicable	<b>)</b> .		
:	Ingredient name		°C	°F	Method	
	MBS Transfection Kit Soltuion 3					
	Ethanol		455	851	DIN 51794	
:	MBS Transfection Kit Solution 1	N	ot available.	•		
	MBS Transfection Kit	Not available.				
	MBS Transfection Kit Soltuion 3	N	ot available.	le.		
	·					
:		N	ot available.			
	MBS Transfection Kit	N	ot available.			
	MBS Transfection Kit	N	ot available.			
		N	ot available.			
:	MBS Transfection Kit Solution 1	N	ot applicable	<b>)</b> .		
	MBS Transfection Kit Solution 2	N	ot applicable	<b>)</b> .		
	MBS Transfection Kit	N	ot applicable	<del>)</del> .		
		N	ot applicable	<b>)</b> .		
	:	MBS Transfection Kit Solution water MBS Transfection Kit Solution water MBS Transfection Kit Solution water pCMV ß-Gal Control Plasmid water  : MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid : Ingredient name MBS Transfection Kit Solution 3 Ethanol : MBS Transfection Kit Solution 1 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 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid : MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid : MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3	MBS Transfection Kit Solution water MBS Transfection Kit Solution water MBS Transfection Kit Solution water pCMV ß-Gal Control Plasmid water  : MBS Transfection Kit N Solution 1 MBS Transfection Kit N Solution 2 MBS Transfection Kit N Solution 3 pCMV ß-Gal Control Plasmid N  : Ingredient name MBS Transfection Kit Solution 3 Ethanol : MBS Transfection Kit N Solution 1 MBS Transfection Kit N Solution 2 MBS Transfection Kit N Solution 3 pCMV ß-Gal Control Plasmid N : MBS Transfection Kit N Solution 3 pCMV ß-Gal Control Plasmid N : MBS Transfection Kit N Solution 1 MBS Transfection Kit N Solution 1 MBS Transfection Kit N Solution 2 MBS Transfection Kit N Solution 2 MBS Transfection Kit N Solution 3 pCMV ß-Gal Control Plasmid N  : MBS Transfection Kit N Solution 1 MBS Transfection Kit N Solution 2 MBS Transfection Kit N Solution 3 pCMV ß-Transfection Kit N Solution 2 MBS Transfection Kit N Solution 3	MBS Transfection Kit Solution 1 water MBS Transfection Kit Solution 2 water MBS Transfection Kit Solution 3 water pCMV ß-Gal Control Plasmid water : MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid Not applicable Solution 3 pCMV ß-Gal Control Plasmid Not applicable Solution 3 Ethanol  Ingredient name C MBS Transfection Kit Solution 3 Ethanol  Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid Not available. Solution 3 pCMV ß-Gal Control Plasmid Not available. Solution 3 pCMV ß-Gal Control Plasmid Not available. Solution 1 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid Not available. Solution 1 MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3 Not applicable Solution 3 Not applicable Solution 3 Not applicable Solution 3 Not applicable Solution 3	MBS Transfection Kit Solution 1 water MBS Transfection Kit Solution 2 water MBS Transfection Kit Solution 3 water pCMV ß-Gal Control Plasmid water Soluble  MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid Not applicable.  Ingredient name  MBS Transfection Kit Solution 3 Ethanol  Image Transfection Kit Solution 1 MBS Transfection Kit Solution 3 Ethanol  MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Solution 3 pCMV ß-Gal Control Plasmid Not available.  Solution 1 MBS Transfection Kit Solution 2 MBS Transfection Kit Not applicable.  Solution 2 MBS Transfection Kit Not applicable.	

### Section 10. Stability and reactivity

Reactivity

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

this product or its ingredients.

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version : 8 14/20

MBS Mammalian Transfection Kit, Part Number 200388

### Section 10. Stability and reactivity

**Chemical stability** : MBS Transfection Kit

> Solution 1 MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

The product is stable.

The product is stable.

The product is stable.

pCMV ß-Gal Control Plasmid The product is stable.

Possibility of hazardous reactions

: MBS Transfection Kit Under normal conditions of storage and use,

Solution 1 hazardous reactions will not occur.

MBS Transfection Kit Under normal conditions of storage and use,

Solution 2 hazardous reactions will not occur.

MBS Transfection Kit Under normal conditions of storage and use,

Soltuion 3 hazardous reactions will not occur.

pCMV ß-Gal Control Plasmid Under normal conditions of storage and use,

hazardous reactions will not occur.

Conditions to avoid

MBS Transfection Kit No specific data.

Solution 1

MBS Transfection Kit

Solution 2

No specific data.

MBS Transfection Kit

Soltuion 3

No specific data.

pCMV ß-Gal Control Plasmid No specific data.

Incompatible materials

: MBS Transfection Kit May react or be incompatible with oxidising materials.

Solution 1

MBS Transfection Kit

Solution 2

May react or be incompatible with oxidising materials.

MBS Transfection Kit Soltuion 3

May react or be incompatible with oxidising materials. pCMV ß-Gal Control Plasmid May react or be incompatible with oxidising materials.

**Hazardous decomposition** products

: MBS Transfection Kit

Solution 1

Under normal conditions of storage and use,

hazardous decomposition products should not be

hazardous decomposition products should not be

produced.

MBS Transfection Kit

Solution 2

Under normal conditions of storage and use,

produced.

MBS Transfection Kit

Soltuion 3

Under normal conditions of storage and use, hazardous decomposition products should not be

produced.

pCMV ß-Gal Control Plasmid Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

### **Section 11. Toxicological information**

#### Information on toxicological effects

#### **Acute toxicity**

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

Irritation/Corrosion

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version: 8 15/20

### **Section 11. Toxicological information**

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	-
	Eyes - Moderate irritant	Rabbit	-	mg 100 uL	-

#### **Sensitisation**

Not available.

### **Mutagenicity**

**Conclusion/Summary** 

**Carcinogenicity** 

**Conclusion/Summary** 

: Not available.

: Not available.

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 likely routes

of exposure

: MBS Transfection Kit

Routes of entry anticipated: Oral, Dermal, Inhalation,

Solution 1

Eyes. MBS Transfection Kit Routes of entry anticipated: Oral, Dermal, Inhalation,

Solution 2 Eyes.

MBS Transfection Kit Routes of entry anticipated: Oral, Dermal, Inhalation,

Soltuion 3

Eyes.

pCMV ß-Gal Control Plasmid Not available.

Potential acute health effects

**Eye contact** 

MBS Transfection Kit

Causes serious eye irritation.

Solution 1

MBS Transfection Kit

No known significant effects or critical hazards.

Solution 2

MBS Transfection Kit

No known significant effects or critical hazards.

Soltuion 3

pCMV ß-Gal Control Plasmid No known significant effects or critical hazards.

Inhalation : MBS Transfection Kit No known significant effects or critical hazards.

Solution 1

MBS Transfection Kit No known significant effects or critical hazards.

Solution 2

MBS Transfection Kit No known significant effects or critical hazards.

Soltuion 3

pCMV ß-Gal Control Plasmid No known significant effects or critical hazards.

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version: 8 16/20 Ingestion

### Section 11. Toxicological information

: MBS Transfection Kit Skin contact No known significant effects or critical hazards.

Solution 1

MBS Transfection Kit No known significant effects or critical hazards.

Solution 2

MBS Transfection Kit No known significant effects or critical hazards.

Soltuion 3

pCMV ß-Gal Control Plasmid No known significant effects or critical hazards.

: MBS Transfection Kit

No known significant effects or critical hazards.

Solution 1

MBS Transfection Kit No known significant effects or critical hazards.

Solution 2

MBS Transfection Kit No known significant effects or critical hazards.

Soltuion 3

pCMV ß-Gal Control Plasmid No known significant effects or critical hazards.

#### Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : MBS Transfection Kit Adverse symptoms may include the following:

Solution 1

pain or irritation watering redness

MBS Transfection Kit No specific data.

Solution 2

MBS Transfection Kit No specific data.

Soltuion 3

pCMV ß-Gal Control Plasmid No specific data.

Inhalation MBS Transfection Kit No specific data.

Solution 1

MBS Transfection Kit No specific data.

Solution 2

MBS Transfection Kit No specific data.

Soltuion 3

pCMV ß-Gal Control Plasmid No specific data.

**Skin contact** : MBS Transfection Kit No specific data.

Solution 1

MBS Transfection Kit No specific data.

Solution 2

MBS Transfection Kit No specific data.

Soltuion 3

pCMV ß-Gal Control Plasmid No specific data.

Ingestion : MBS Transfection Kit No specific data.

Solution 1

MBS Transfection Kit No specific data.

Solution 2

MBS Transfection Kit No specific data.

Soltuion 3

pCMV ß-Gal Control Plasmid No specific data.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Short term exposure** 

**Potential immediate** : Not available.

effects

Potential delayed effects : Not available.

**Long term exposure** 

**Potential immediate** : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version: 8 17/20

### Section 11. Toxicological information

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

### **Numerical measures of toxicity**

### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	,		Inhalation (dusts and mists) (mg/l)
MBS Transfection Kit Soltuion 3 Ethanol	7000	N/A	N/A	124.7	N/A

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

### Section 12. Ecological information

### **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	Algae - <i>Ulva pertusa</i>	96 hours
	Acute EC50 1074 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 2 mg/l Fresh water Acute LC50 11000000 μg/l Marine	Daphnia - <i>Daphnia magna</i> Fish - <i>Alburnus alburnus</i>	48 hours 96 hours
Date of issue/Date of revision	: 28/03/2024 Date of previous issue	: 30/03/2021 <b>Version</b>	:8 18/2

MBS Mammalian Transfection Kit, Part Number 200388

### Section 12. Ecological information

water		
Chronic NOEC 4.995 mg/l Marine water	Algae - <i>Ulva pertusa</i>	96 hours
Chronic NOEC 100 ul/L Fresh water	Daphnia - <i>Daphnia magna</i> -	21 days
	Neonate	

#### Persistence and degradability

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

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
MBS Transfection Kit Soltuion 3			
Ethanol	-0.35	0.5	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

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

### Section 13. Disposal considerations

**Disposal methods** 

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

### **Section 14. Transport information**

ADG / IMDG / IATA

: Not regulated as Dangerous Goods according to the ADG Code .

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

Standard for the Uniform Scheduling of Medicines and Poisons

Not regulated.

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

#### International regulations

Date of issue/Date of revision : 28/03/2024 Date of previous issue : 30/03/2021 Version: 8 19/20

### Section 15. Regulatory information

#### 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.

New Zealand : Not determined.

United States : Not determined.

### Section 16. Any other relevant information

#### **History**

Date of issue/Date of

revision

: 28/03/2024

Date of previous issue : 30/03/2021

Version : 8

Key to abbreviations

ADG = Australian Dangerous Goods

ADR = The European Agreement concerning the International Carriage of

Dangerous Goods by Road 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

SUSMP = Standard Uniform Schedule of Medicine and Poisons

UN = United Nations

#### Procedure used to derive the classification

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

✓ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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