SAFETY DATA SHEET



MBS Mammalian Transfection Kit, Part Number 200388

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

1.1 Product identifier

Product name : MBS Mammalian Transfection Kit, Part Number 200388

Part no. (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

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

Identified uses : Analytical reagent.

MBS Transfection Kit Solution 1 10 ml MBS Transfection Kit Solution 2 50 ml MBS Transfection Kit Soltuion 3 80 ml

pCMV β-Gal Control Plasmid 0.04 ml (40 μg 1 μg/μl)

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germany

Germany 0800 603 1000

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone

number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : MBS Transfection Kit Mixture

Solution 1

MBS Transfection Kit Mixture

Solution 2

MBS Transfection Kit Mixture

Soltuion 3

pCMV ß-Gal Control Mixture

Plasmid

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

MBS Transfection Kit

Solution 1

H319 SERIOUS EYE DAMAGE/EYE IRRITATION Category 2

MBS Transfection Kit Solution 1 The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

MBS Transfection Kit Solution 2 The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

MBS Transfection Kit Soltuion 3 The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

pCMV ß-Gal Control Plasmid The product is not classified as hazardous according to Regulation (EC)

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SECTION 2: Hazards identification

1272/2008 as amended.

Ingredients of unknown toxicity

: MBS Transfection Kit

Solution 2

Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown acute oral toxicity: 1 - 10%

MBS Transfection Kit

Soltuion 3

Percentage of the mixture consisting of ingredient(s) of

unknown acute dermal toxicity: > 60%

Percentage of the mixture consisting of ingredient(s) of

unknown acute inhalation toxicity: > 60%

Percentage of the mixture consisting of ingredient(s) of

unknown acute oral toxicity: > 60%

Ingredients of unknown ecotoxicity

: MBS Transfection Kit

Soltuion 3

Contains 98.8% of components with unknown hazards to

the aquatic environment

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements

Hazard pictograms : MBS Transfection Kit

Solution 1

Warning

Signal word : MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

No signal word. No signal word.

No signal word.

Hazard statements

MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

H319 - Causes serious eye irritation.

P280 - Wear eye or face protection.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Plasmid

Precautionary statements

Prevention

: MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2 MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not applicable.

Response : MBS Transfection Kit

Solution 1

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and easy to do. Continue rinsing.

P337 + P313 - If eye irritation persists: Get medical advice

or attention. Not applicable.

Not applicable.

Not applicable.

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not applicable.

Not applicable.

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SECTION 2: Hazards identification

MBS Transfection Kit **Storage** Not applicable.

Solution 1

MBS Transfection Kit Not applicable.

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not applicable. Not applicable.

Not applicable.

Not applicable.

Disposal MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV \(\mathbb{G}\)-Gal Control

Plasmid

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Supplemental label elements

Annex XVII - Restrictions

on the manufacture,

and use of certain

placing on the market

dangerous substances,

mixtures and articles

MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not applicable.

Safety data sheet available on request.

MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Special packaging requirements

Tactile warning of

danger

: MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not applicable.

Not applicable.

Not applicable.

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to

Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do

not result in

classification

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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

None known.

None known.

None known.

None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances : MBS Transfection Kit Solution 1 Mixture MBS Transfection Kit Solution 2 Mixture MBS Transfection Kit Soltuion 3 Mixture

pCMV ß-Gal Control Plasmid Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
MBS Transfection Kit Solution 1					
calcium chloride	EC: 233-140-8 CAS: 10035-04-8 Index: 017-013-00-2	≥25 - ≤50	Eye Irrit. 2, H319	-	[1]
MBS Transfection Kit Soltuion 3					
ethanol	EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5	≤3	Flam. Liq. 2, H225 Eye Irrit. 2, H319	Eye Irrit. 2, H319: C ≥ 50%	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

Inhalation

MBS Transfection Kit Solution 1 MBS Transfection Kit Soltuion 3 [1] Substance classified with a health or environmental hazard

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : MBS Transfection Kit

Solution 1

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

MBS Transfection Kit

Solution 2

Get medical attention. Immediately flush eyes with plenty of water, occasionally

MBS Transfection Kit

Soltuion 3

lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. Immediately flush eyes with plenty of water, occasionally

pCMV ß-Gal Control

any contact lenses. Get medical attention if irritation occurs. 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.

lifting the upper and lower eyelids. Check for and remove

Plasmid

Remove victim to fresh air and keep at rest in a position

: MBS Transfection Kit Solution 1

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-tomouth 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

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SECTION 4: First aid measures

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 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if Soltuion 3 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 pCMV ß-Gal Control Remove victim to fresh air and keep at rest in a position Plasmid comfortable for breathing. Get medical attention if symptoms occur. : MBS Transfection Kit **Skin contact** Flush contaminated skin with plenty of water. Remove Solution 1 contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse. MBS Transfection Kit Flush contaminated skin with plenty of water. Remove Solution 2 contaminated clothing and shoes. Get medical attention if symptoms occur. MBS Transfection Kit Flush contaminated skin with plenty of water. Remove Soltuion 3 contaminated clothing and shoes. Get medical attention if symptoms occur. pCMV ß-Gal Control Flush contaminated skin with plenty of water. Remove Plasmid contaminated clothing and shoes. Get medical attention if symptoms occur. : MBS Transfection Kit Wash out mouth with water. Remove dentures if any. If Ingestion material has been swallowed and the exposed person is Solution 1 conscious, give small quantities of water to drink. Stop if the

exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

MBS Transfection Kit Solution 2

Wash out mouth with water. 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. 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 \(\mathbb{G}\)-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.

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. No action shall be taken involving any personal risk or

MBS Transfection Kit Solution 2 MBS Transfection Kit

No action shall be taken involving any personal risk or without suitable training.

Soltuion 3 pCMV ß-Gal Control Plasmid

No action shall be taken involving any personal risk or without suitable training.

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without suitable training.

SECTION 4: First aid measures

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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

Plasmid

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 No known significant effects or critical hazards.

Plasmid

Skin contact : 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 No known significant effects or critical hazards.

Plasmid

Ingestion : 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 \(\mathbb{G}\)-Gal Control No known significant effects or critical hazards.

Plasmid

Over-exposure signs/symptoms

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

Solution 1

watering redness

pain or irritation

MBS Transfection Kit No specific data.

Solution 2

MBS Transfection Kit No specific data.

Soltuion 3

pCMV ß-Gal Control No specific data.

Plasmid

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 No specific data.

Plasmid

Skin contact : MBS Transfection Kit No specific data.

Solution 1

MBS Transfection Kit No specific data.

Solution 2

No specific data.

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control No specific data.

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SECTION 4: First aid measures

Plasmid

: MBS Transfection Kit Ingestion

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV \(\mathbb{G}\)-Gal Control

Plasmid

No specific data.

No specific data.

No specific data.

No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

: MBS Transfection Kit

Solution 1

MBS Transfection Kit

MBS Transfection Kit

Solution 2

Soltuion 3

symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours. In case of inhalation of decomposition products in a fire,

In case of inhalation of decomposition products in a fire,

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

symptoms may be delayed. The exposed person may need

to be kept under medical surveillance for 48 hours.

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

immediately if large quantities have been ingested or inhaled.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Use an extinguishing agent suitable for the surrounding fire.

Specific treatments

: MBS Transfection Kit

Solution 1

Plasmid

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

No specific treatment. No specific treatment.

No specific treatment.

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

. Plasmid

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

Hazards from the substance or mixture : MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

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

container may burst.

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

container may burst.

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

container may burst.

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

container may burst.

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SECTION 5: Firefighting measures

Hazardous combustion products

MBS Transfection Kit Solution 1

Decomposition products may include the following materials:

halogenated compounds metal oxide/oxides

MBS Transfection Kit Solution 2

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds metal oxide/oxides

MBS Transfection Kit Soltuion 3

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus oxides No specific data.

pCMV ß-Gal Control

Plasmid

5.3 Advice for firefighters

Special precautions for fire-fighters

Special protective

equipment for fire-

fighters

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

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. 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. 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. 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.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: MBS Transfection Kit Solution 1

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

Soltuion 3

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

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

emergency personnel".

MBS Transfection Kit

Solution 2

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

emergency personnel".

MBS Transfection Kit

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".

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".

6.2 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).

6.3 Methods and material for containment and cleaning up

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SECTION 6: Accidental release measures

Methods for cleaning up

: MBS Transfection Kit

Solution 1

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

MBS Transfection Kit

Solution 2

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

MBS Transfection Kit

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.

6.4 Reference to other sections

See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

: MBS Transfection Kit Solution 1

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

Empty containers retain product residue and can be hazardous. Do not reuse container.

MBS Transfection Kit

Solution 2

MBS Transfection Kit Soltuion 3

pCMV ß-Gal Control

Plasmid

Put on appropriate personal protective equipment (see

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

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

Section 8).

Advice on general occupational hygiene : MBS Transfection Kit

Solution 1

MBS Transfection Kit

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 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

Soltuion 3

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

pCMV ß-Gal Control

Plasmid

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

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SECTION 7: Handling and storage

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

7.2 Conditions for safe storage, including any incompatibilities

Storage

: MBS Transfection Kit Solution 1 Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

MBS Transfection Kit Solution 2

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

MBS Transfection Kit Soltuion 3

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

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.

7.3 Specific end use(s) Recommendations

: MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 2

Industrial applications, Professional applications.

Industrial applications, Professional applications.

MBS Transfection Kit Soltuion 3

Industrial applications, Professional applications.

pCMV ß-Gal Control

Industrial applications, Professional applications.

Plasmid

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SECTION 7: Handling and storage

Industrial sector specific : MBS Transfection Kit solutions

Not available.

Solution 1

MBS Transfection Kit

Not available.

Solution 2

MBS Transfection Kit

Not available.

Soltuion 3

pCMV ß-Gal Control

Not available.

Plasmid

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
MBS Transfection Kit Soltuion 3 ethanol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational Exposure Limit Values (OELVs) OELV: 1000 ppm 15 minutes.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
MBS Transfection Kit Solution 1		_		-	
Calcium chloride (CaCl2), dihydrate	DNEL	Short term	5 mg/m³	General	Local
, , , , ,		Inhalation		population	
	DNEL	Long term Inhalation	5 mg/m³	Workers	Local
	DNEL	Short term Inhalation	10 mg/m³	Workers	Local
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Local
MBS Transfection Kit Soltuion 3					
ethanol	DNEL	Long term Inhalation	380 mg/m ³	Workers	Systemic
	DNEL	Long term Oral	87 mg/kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	114 mg/m³	General population	Systemic
	DNEL	Long term Dermal	206 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	343 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	950 mg/m³	General population	Local
	DNEL	Short term Inhalation	1900 mg/ m³	Workers	Local

PNECs

No PNECs available

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SECTION 8: Exposure controls/personal protection

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

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

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.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

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 Liquid.

Plasmid

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 Not available.

Plasmid

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SECTION 9: Physical and chemical properties 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 Not available. Plasmid **Odour threshold** : MBS Transfection Kit Not available. Solution 1 MBS Transfection Kit Not available. Solution 2 MBS Transfection Kit Not available. Soltuion 3

Melting point/freezing point

: MBS Transfection Kit Solution 1

pCMV ß-Gal Control

MBS Transfection Kit

Solution 2

MBS Transfection Kit Soltuion 3

pCMV ß-Gal Control

Plasmid

Plasmid

Initial boiling point and boiling range

Flammability

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

Upper/lower flammability: or explosive limits

MBS Transfection Kit

Solution 1 MBS Transfection Kit

Solution 2 MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not available.

Not available.

0°C

Not available.

0°C

Not available.

100°C

Not available.

100°C

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not available.

Not available.

Not available.

Not available.

Flash point

	•	Closed cup		Open cup	
Ingredient name	°C	Method	°C	Method	
MBS Transfection Kit Soltuion 3					
ethanol	9.7	Abel-Pens	ky -	-	
La constitución de la constituci	·	00	Mothe	- d	

Auto-ignition temperature

ethanol	9.1	VDCI-L CUS	ony -	ļ-
Ingredient name		°C	Method	
MBS Transfection Kit Soltuion 3				
ethanol	4	155	DIN 51794	

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SECTION 9: Physical and chemical properties

Decomposition temperature

pН

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

Not available.

Plasmid

: MBS Transfection Kit

Not available.

Solution 1

MBS Transfection Kit

6.95

Solution 2

MBS Transfection Kit

Not available.

Soltuion 3

pCMV ß-Gal Control Not available.

Plasmid

: MBS Transfection Kit

Not available.

Solution 1

MBS Transfection Kit

Solution 2

Not available.

MBS Transfection Kit

Not available.

Soltuion 3

pCMV ß-Gal Control

Not available.

Plasmid

Solubility(ies)

Viscosity

Media	Result
MBS Transfection Kit Solution 1	
water	Soluble
MBS Transfection Kit Solution 2	
water	Soluble
MBS Transfection Kit Soltuion 3	
water	Soluble
pCMV ß-Gal Control Plasmid	
water	Soluble

Partition coefficient: noctanol/water

: 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.

Vapour pressure

	Vapour Pressure at 20°C		e at 20°C	Vapour pressure at 50		
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	-	_	-	-

Date of issue/Date of revision : 28/03/2024 Date of previous issue : No previous validation Version: 1 15/24 Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Ireland MBS Mammalian Transfection Kit, Part Number 200388 **SECTION 9: Physical and chemical properties** pCMV ß-Gal **Control Plasmid** 2.3 17.5 12.3 water 92.258 **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 Not available. Plasmid **Relative density** : MBS Transfection Kit Not available. Solution 1 Not available. MBS Transfection Kit Solution 2 Not available. MBS Transfection Kit Soltuion 3 Not available. pCMV ß-Gal Control Plasmid Vapour density : 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 Not available. Plasmid **Explosive properties** : MBS Transfection Kit Not available. Solution 1 MBS Transfection Kit Not available. Solution 2 Not available. MBS Transfection Kit Soltuion 3 Not available. pCMV ß-Gal Control Plasmid **Oxidising properties** Not available. : MBS Transfection Kit Solution 1 MBS Transfection Kit Not available.

Solution 2 MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Not available.

Particle characteristics

: MBS Transfection Kit Solution 1

MBS Transfection Kit

Solution 2 MBS Transfection Kit

Soltuion 3 pCMV ß-Gal Control

Plasmid

Not applicable.

Not available.

Not applicable.

Not applicable.

Not applicable.

9.2 Other information

Median particle size

No additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

: MBS Transfection Kit

MBS Transfection Kit

pCMV ß-Gal Control

Solution 1

Solution 2

Soltuion 3

Plasmid

MBS Transfection Kit

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.

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.

10.3 Possibility of hazardous reactions : MBS Transfection Kit

Solution 1

MBS Transfection Kit Solution 2

MBS Transfection Kit Soltuion 3

pCMV \(\mathbb{G}\)-Gal Control

Plasmid

Under normal conditions of storage and use, hazardous reactions will not occur.

Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous

reactions will not occur.

Under normal conditions of storage and use, hazardous

reactions will not occur.

10.4 Conditions to avoid

MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

No specific data.

No specific data.

No specific data.

No specific data.

10.5 Incompatible materials

: MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : MBS Transfection Kit Solution 1

MBS Transfection Kit Solution 2

MBS Transfection Kit

Soltuion 3 pCMV ß-Gal Control

Plasmid

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

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

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

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

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	
MBS Transfection Kit Soltuion 3 ethanol	7000	N/A	N/A	124.7	N/A

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	-

Sensitiser

Conclusion/Summary

Mutagenicity

: Not available.

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: 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

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Not available.

Potential acute health effects

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SECTION 11: Toxicological information

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 No known significant effects or critical hazards.

Plasmid

Ingestion : 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 No known significant effects or critical hazards.

Plasmid

Skin contact: 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 No known significant effects or critical hazards.

Plasmid

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 No known significant effects or critical hazards.

Plasmid

Symptoms related to the physical, chemical and toxicological characteristics

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 No specific data.

Plasmid

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 No specific data.

Plasmid

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 No specific data.

Plasmid

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SECTION 11: Toxicological information

: MBS Transfection Kit **Eye contact**

Solution 1

Adverse symptoms may include the following:

pain or irritation watering redness

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

No specific data.

No specific data.

No specific data.

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

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

Conclusion/Summary

: Not available.

General

MBS Transfection Kit No known significant effects or critical hazards.

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

No known significant effects or critical hazards.

Carcinogenicity : MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

No known significant effects or critical hazards.

Mutagenicity : MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

Reproductive toxicity : MBS Transfection Kit

Solution 1

MBS Transfection Kit

Solution 2

MBS Transfection Kit

Soltuion 3

pCMV ß-Gal Control

Plasmid

No known significant effects or critical hazards.

11.2 Information on other hazards

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SECTION 11: Toxicological information

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

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

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
arrydrate	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	Algae - <i>Ulva pertusa</i> Crustaceans - <i>Cypris</i> subglobosa	96 hours 48 hours
	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	Daphnia - <i>Daphnia magna</i>	48 hours 96 hours 96 hours 21 days

12.2 Persistence and degradability

Not available.

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 (Koc)

: Not available.

(100)

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

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SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

: Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal

: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Special precautions

: This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

Additional information

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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SECTION 15: Regulatory information

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

Product / Ingredient name	Identifiers	Designation [Usage]
MBS Transfection Kit Solution 1 MBS Transfection Kit Solution 1		3

Label : 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.

Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

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.

Eurasian Economic

Union Japan

Viet Nam

: Russian Federation inventory: Not determined.

: Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.New Zealand : Not determined.Philippines : Not determined.

: Not determined.

Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.
United States : Not determined.

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SECTION 15: Regulatory information

15.2 Chemical safety assessment

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

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]
DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

vPvB = Very Persistent and Very Bioaccumulative

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

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

Full text of abbreviated H statements

MBS Transfection Kit Solution 1 H319	Causes serious eye irritation.
MBS Transfection Kit Soltuion 3 H225 H319	Highly flammable liquid and vapour. Causes serious eye irritation.

Full text of classifications [CLP/GHS]

MBS Transfection Kit Solution 1 Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
MBS Transfection Kit Soltuion 3	
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2

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