SAFETY DATA SHEET



AdEasy XL Adenoviral Vector System Kit, Part Number 240010

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

1.1 Product identifier

Product name : AdEasy XL Adenoviral Vector System Kit, Part Number 240010

Part no. (chemical kit) : 240010

Part no. : AD-293 Cell Line >1 x 10e6 Viable Cells 240085-41

pShuttle Vector 240006-51 240007-51 pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector 240008-51 BJ5183-AD-1 electroporation competent cells 200157-41 XL10-Gold Ultracompetent cells 200315-41 XL10-Gold 2-Mercaptoethanol 200314-43 pUC 18 DNA Control Plasmid 200231-42 Transformation Control 200157-42

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

Identified uses : Analytical reagent.

AD-293 Cell Line >1 x 10e6 Viable Cells 1 ml

pShuttle Vector 0.02 ml (20 μ g 1 μ g/ μ l) pShuttle-CMV Vector 0.02 ml (20 μ g 1 μ g/ μ l) pShuttle-CMV-lacZ Control Vector 0.01 ml (10 μ g 1 μ g/ μ l)

BJ5183-AD-1 electroporation competent cells 0.5 ml XL10-Gold Ultracompetent cells 0.5 ml XL10-Gold 2-Mercaptoethanol 0.05 ml

pUC 18 DNA Control Plasmid 0.01 ml (0.1 ng/μl)
Transformation Control 0.01 ml (0.1 ng/μl 10 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 0800 603 1000

e-mail address of person : pd responsible for this SDS

: pdl-msds author@agilent.com

1.4 Emergency telephone number

Emergency telephone number (with hours of

: CHEMTREC®: +(44)-870-8200418

operation)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : AD-293 Cell Line >1 x Mixture

10e6 Viable Cells

pShuttle Vector Mixture pShuttle-CMV Vector Mixture pShuttle-CMV-lacZ Mixture

Control Vector

BJ5183-AD-1 Mixture

electroporation competent cells

XL10-Gold Mixture

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SECTION 2: Hazards identification

Ultracompetent cells

XL10-Gold Mixture

2-Mercaptoethanol

pUC 18 DNA Control Mixture

Plasmid

Transformation Control Mixture

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

XL10-Gold

2-Mercaptoethanol

SERIOUS EYE DAMAGE/EYE IRRITATION H318 Category 1 H317 SKIN SENSITISATION Category 1 H361f REPRODUCTIVE TOXICITY Category 2 H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

The product is not classified as hazardous according to Regulation (EC) AD-293 Cell Line >1 x 10e6 Viable

Cells

1272/2008 as amended.

pShuttle Vector The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

pShuttle-CMV Vector The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

pShuttle-CMV-lacZ Control Vector The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

BJ5183-AD-1 electroporation

XL10-Gold Ultracompetent cells

The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

competent cells

The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended. XL10-Gold 2-Mercaptoethanol The product is classified as hazardous according to Regulation (EC) 1272/2008 as

amended.

pUC 18 DNA Control Plasmid The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Transformation Control The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended.

Ingredients of unknown

toxicity

: BJ5183-AD-1

Percentage of the mixture consisting of ingredient(s) of

electroporation competent unknown acute inhalation toxicity: 10 - 30%

cells

XL10-Gold Ultracompetent 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: 10 - 30%

Percentage of the mixture consisting of ingredient(s) of XL10-Gold

2-Mercaptoethanol unknown acute inhalation toxicity: 10 - 30%

Ingredients of unknown

ecotoxicity

BJ5183-AD-1

Contains 2.3% of components with unknown hazards to the

electroporation competent aquatic environment

XL10-Gold Ultracompetent Contains 5% of components with unknown hazards to the

cells 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 : XL10-Gold

2-Mercaptoethanol







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SECTION 2: Hazards identification : AD-293 Cell Line >1 x Signal word No signal word. 10e6 Viable Cells pShuttle Vector No signal word. pShuttle-CMV Vector No signal word. pShuttle-CMV-lacZ No signal word. Control Vector BJ5183-AD-1 No signal word. electroporation competent cells XL10-Gold No signal word. Ultracompetent cells XL10-Gold Danger 2-Mercaptoethanol pUC 18 DNA Control No signal word. Plasmid **Transformation Control** No signal word. **Hazard statements** AD-293 Cell Line >1 x No known significant effects or critical hazards. 10e6 Viable Cells pShuttle Vector No known significant effects or critical hazards. pShuttle-CMV Vector No known significant effects or critical hazards. No known significant effects or critical hazards. pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 No known significant effects or critical hazards. electroporation competent cells XL10-Gold No known significant effects or critical hazards. Ultracompetent cells XL10-Gold H317 - May cause an allergic skin reaction. 2-Mercaptoethanol H318 - Causes serious eye damage. H361f - Suspected of damaging fertility. H412 - Harmful to aquatic life with long lasting effects. pUC 18 DNA Control No known significant effects or critical hazards. Plasmid **Transformation Control** No known significant effects or critical hazards. **Precautionary statements Prevention** : AD-293 Cell Line >1 x Not applicable. 10e6 Viable Cells pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. Not applicable. pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 Not applicable. electroporation competent cells XL10-Gold Not applicable. Ultracompetent cells XL10-Gold P201 - Obtain special instructions before use. 2-Mercaptoethanol P280 - Wear protective gloves, protective clothing and eye or face protection. P273 - Avoid release to the environment. Not applicable. pUC 18 DNA Control Plasmid **Transformation Control** Not applicable. Response : AD-293 Cell Line >1 x Not applicable. 10e6 Viable Cells pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. pShuttle-CMV-lacZ Not applicable.

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Not applicable.

Control Vector BJ5183-AD-1

SECTION 2: Hazards identification

Storage

Disposal

electroporation competent cells

XL10-Gold

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol Not applicable.

P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER or doctor.

pUC 18 DNA Control

Plasmid

Not applicable.

Transformation Control

: AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control

Plasmid

Transformation Control : AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector BJ5183-AD-1 electroporation competent cells

XL10-Gold

Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control

Hazardous ingredients : XL10-Gold

Supplemental label

elements

2-Mercaptoethanol

AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control

Plasmid

Transformation Control

Not applicable. Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable. Not applicable.

Not applicable.

Not applicable. Not applicable.

Not applicable.

Not applicable.

P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Not applicable.

Not applicable.

2-mercaptoethanol

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

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SECTION 2: Hazards identification

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

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation

competent cells XL10-Gold

Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control Plasmid

Transformation Control

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Special packaging requirements

Tactile warning of danger

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold

Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control

Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

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

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold

Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control Plasmid

Transformation Control

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.

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.

This mixture does not contain any substances that are

assessed to be a PBT or a vPvB. Other hazards which do

not result in classification : AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation

None known.

None known. None known. None known.

None known.

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SECTION 2: Hazards identification

competent cells

XL10-Gold None known.

Ultracompetent cells

XL10-Gold None known.

2-Mercaptoethanol

pUC 18 DNA Control None known.

Plasmid

Transformation Control None known.

Additional information : AD-293 Cell Line >1 x 10e6 Biohaz

AD-293 Cell Line >1 x 10e6 Biohazard - The product contains Adenovirus considered as a Biosafety Level 2 substance.

SECTION 3: Composition/information on ingredients

3.1 Substances : AD-293 Cell Line >1 x 10e6 Viable Mixture

Cells

pShuttle Vector Mixture
pShuttle-CMV Vector Mixture
pShuttle-CMV-lacZ Control Vector Mixture
BJ5183-AD-1 electroporation Mixture

competent cells

XL10-Gold Ultracompetent cells
XL10-Gold 2-Mercaptoethanol
pUC 18 DNA Control Plasmid
Transformation Control

Mixture
Mixture
Mixture

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
|---------------------------------------------------|----------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------|
| BJ5183-AD-1 electroporation competent cells | | | | | |
| glycerol | REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≤10 | Not classified. | - | [1] |
| XL10-Gold Ultracompetent cells | | | | | |
| glycerol | REACH #: Annex V EC: 200-289-5 CAS: 56-81-5 | ≥10 - ≤25 | Not classified. | - | [1] |
| sucrose | REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1 | ≤10 | Not classified. | - | [1] |
| XL10-Gold 2-Mercaptoethanol | | | | | |
| 2-mercaptoethanol | EC: 200-464-6 CAS: 60-24-2 | ≤5 | Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Repr. 2, H361f STOT RE 2, H373 (heart, liver) Aquatic Acute 1, H400 Aquatic Chronic 2, H411 | ATE [Oral] = 244 mg/kg ATE [Dermal] = 200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l M [Acute] = 1 | [1] |

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Ireland

AdEasy XL Adenoviral Vector System Kit, Part Number 240010 SECTION 3: Composition/information on ingredients See Section 16 for the full text of the H statements declared

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.

BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

[1] Substance with a workplace exposure limit [1] Substance with a workplace exposure limit

above.

[1] Substance classified with a health or environmental hazard

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact

Inhalation

: AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells XL10-Gold

Ultracompetent cells

XL10-Gold

2-Mercaptoethanol

pUC 18 DNA Control Plasmid

Transformation Control

: AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ

BJ5183-AD-1 electroporation

Control Vector

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. 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. 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. 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. 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. 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. Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower evelids. Check for and remove 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. 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

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

symptoms occur.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

symptoms occur.

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

competent cells symptoms occur.

Remove victim to fresh air and keep at rest in a position XL10-Gold Ultracompetent cells comfortable for breathing. Get medical attention if

symptoms occur.

XL10-Gold Get medical attention immediately. Call a poison center or 2-Mercaptoethanol physician. Remove victim to fresh air and keep at rest in a

> position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. 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.

pUC 18 DNA Control

Plasmid

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if

symptoms occur.

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

comfortable for breathing. Get medical attention if

symptoms occur.

Skin contact AD-293 Cell Line >1 x

10e6 Viable Cells

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

symptoms occur.

pShuttle Vector Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Flush contaminated skin with plenty of water. Remove pShuttle-CMV Vector

contaminated clothing and shoes. Get medical attention if

symptoms occur.

pShuttle-CMV-lacZ Control Vector

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

symptoms occur.

BJ5183-AD-1 electroporation competent cells Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

XL10-Gold Ultracompetent cells

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

symptoms occur.

XL10-Gold

2-Mercaptoethanol

Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated

clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before

reuse.

pUC 18 DNA Control

Plasmid

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

symptoms occur.

Transformation Control

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

symptoms occur.

Ingestion : AD-293 Cell Line >1 x

10e6 Viable Cells

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 pShuttle Vector

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to

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SECTION 4: First aid measures

do so by medical personnel. Get medical attention if

symptoms occur.

pShuttle-CMV Vector 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.

pShuttle-CMV-lacZ Control Vector

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.

BJ5183-AD-1 electroporation competent cells 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.

XL10-Gold Ultracompetent cells 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.

XL10-Gold 2-Mercaptoethanol Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen

tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Transformation Control

pUC 18 DNA 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

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

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

No action shall be taken involving any personal risk or

without suitable training.

pShuttle-CMV Vector No action shall be taken involving any personal risk or without suitable training.

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

No action shall be taken involving any personal risk or

without suitable training.

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold Ultracompetent cells

2-Mercaptoethanol

XL10-Gold

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

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with

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SECTION 4: First aid measures

pUC 18 DNA Control Plasmid

Transformation Control

water before removing it, or wear gloves.

No action shall be taken involving any personal risk or

without suitable training.

No action shall be taken involving any personal risk or

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

Eye contact : AD-293 Cell Line >1 x

Inhalation

Skin contact

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector BJ5183-AD-1

electroporation competent cells XL10-Gold

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold

Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control

AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes serious eye damage.

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards. Control Vector BJ5183-AD-1 No known significant effects or critical hazards. electroporation competent cells XL10-Gold No known significant effects or critical hazards. Ultracompetent cells XL10-Gold May cause an allergic skin reaction. 2-Mercaptoethanol pUC 18 DNA Control No known significant effects or critical hazards. Plasmid **Transformation Control** No known significant effects or critical hazards.

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SECTION 4: First aid measures

AD-293 Cell Line >1 x Ingestion

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector BJ5183-AD-1

electroporation competent cells XL10-Gold

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control

No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact : AD-293 Cell Line >1 x

10e6 Viable Cells

BJ5183-AD-1 electroporation competent cells

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

No specific data.

No specific data. No specific data.

No specific data.

No specific data.

Adverse symptoms may include the following:

pain watering redness

pUC 18 DNA Control

: AD-293 Cell Line >1 x

competent cells

XL10-Gold

2-Mercaptoethanol

No specific data.

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

Plasmid

Transformation Control

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1

No specific data.

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

XL10-Gold

Plasmid

Transformation Control

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector BJ5183-AD-1 electroporation

Ultracompetent cells

XL10-Gold

pUC 18 DNA Control

: AD-293 Cell Line >1 x

electroporation

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Skin contact

Inhalation

SECTION 4: First aid measures

competent cells

XL10-Gold

No specific data.

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control

Plasmid

No specific data.

Transformation Control : AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector

pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation

No specific data.

competent cells XL10-Gold

Ultracompetent cells

XL10-Gold

2-Mercaptoethanol

No specific data.

Adverse symptoms may include the following:

stomach pains

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

pUC 18 DNA Control

Plasmid

Transformation Control No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician

Ingestion

: AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold Ultracompetent cells

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control

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.

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

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

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SECTION 4: First aid measures

Specific treatments

AD-293 Cell Line >1 x No specific treatment. 10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ No specific treatment. No specific treatment. No specific treatment. No specific treatment.

BJ5183-AD-1 No specific treatment. electroporation competent cells

XL10-Gold No specific treatment. Ultracompetent cells

XL10-Gold No specific treatment. 2-Mercaptoethanol

pUC 18 DNA Control No specific treatment.
Plasmid

Transformation Control No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: AD-293 Cell Line >1 x Use an extinguishing agent suitable for the surrounding fire. 10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 Use an extinguishing agent suitable for the surrounding fire.

electroporation
competent cells
XL10-Gold
Use an extinguishing agent suitable for the surrounding fire.
Ultracompetent cells

XL10-Gold Use an extinguishing agent suitable for the surrounding fire. 2-Mercaptoethanol

pUC 18 DNA Control Use an extinguishing agent suitable for the surrounding fire. Plasmid

Unsuitable extinguishing media

: AD-293 Cell Line >1 x None known.
10e6 Viable Cells
pShuttle Vector None known.
pShuttle-CMV Vector None known.
pShuttle-CMV-lacZ None known.

Control Vector
BJ5183-AD-1 None known.

electroporation competent cells

XL10-Gold None known.

Ultracompetent cells XL10-Gold None known.

2-Mercaptoethanol pUC 18 DNA Control None known. Plasmid

Transformation Control None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: AD-293 Cell Line >1 x In a fire or if heated, a pressure increase will occur and the 10e6 Viable Cells container may burst.

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

container may burst.

pShuttle-CMV Vector In a fire or if heated, a pressure increase will occur and the container may burst.

pShuttle-CMV-lacZ In a fire or if heated, a pressure increase will occur and the control Vector container may burst.

BJ5183-AD-1 In a fire or if heated, a pressure increase will occur and the

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SECTION 5: Firefighting measures

electroporation competent cells container may burst.

XL10-Gold Ultracompetent cells In a fire or if heated, a pressure increase will occur and the

XL10-Gold

container may burst.

2-Mercaptoethanol

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

pUC 18 DNA Control

Plasmid

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

container may burst.

Transformation Control

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

container may burst.

Hazardous combustion products

: AD-293 Cell Line >1 x 10e6 Viable Cells

Decomposition products may include the following materials:

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

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

No specific data. No specific data.

BJ5183-AD-1 electroporation competent cells

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

XL10-Gold

Decomposition products may include the following materials:

Ultracompetent cells

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

XL10-Gold

2-Mercaptoethanol

Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

pUC 18 DNA Control

Plasmid

No specific data.

Transformation Control No specific data.

5.3 Advice for firefighters Special precautions for fire-fighters

: AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector

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

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1

electroporation

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

vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

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SECTION 5: Firefighting measures

Special protective equipment for fire-

fighters

competent cells XL10-Gold Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control Plasmid

Transformation Control

: AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control Plasmid

Transformation Control

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. 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.

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.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

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SECTION 5: Firefighting measures

face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

| For non-emergency |
|-------------------|
| personnel |

: AD-293 Cell Line >1 x 10e6 Viable Cells

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.

pShuttle Vector 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.

pShuttle-CMV Vector

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.

pShuttle-CMV-lacZ Control Vector

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.

BJ5183-AD-1 electroporation competent cells 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.

XL10-Gold

No action shall be taken involving any personal risk or Ultracompetent cells 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.

XL10-Gold

2-Mercaptoethanol

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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put

on appropriate personal protective equipment.

pUC 18 DNA 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.

Transformation Control

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

: AD-293 Cell Line >1 x 10e6 Viable Cells

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".

pShuttle Vector

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-

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emergency personnel".

pShuttle-CMV Vector If specialised clothing is required to deal with the spillage,

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SECTION 6: Accidental release measures

pShuttle-CMV-lacZ If specialised clothing is Control Vector take note of any inform

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-

take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

BJ5183-AD-1 electroporation competent cells 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-

XL10-Gold

emergency personnel".

Ultracompetent cells

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".

XL10-Gold

2-Mercaptoethanol

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".

pUC 18 DNA 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".

Transformation Control

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

: AD-293 Cell Line >1 x 10e6 Viable Cells 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).

pShuttle Vector

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).

pShuttle-CMV Vector

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).

pShuttle-CMV-lacZ Control Vector 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).

BJ5183-AD-1 electroporation competent cells 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).

XL10-Gold Ultracompetent cells

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).

XL10-Gold

2-Mercaptoethanol

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). Water polluting material. May be harmful to the environment if released in large quantities.

pUC 18 DNA 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).

Transformation Control

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant

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SECTION 6: Accidental release measures

authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: AD-293 Cell Line >1 x 10e6 Viable Cells

Stop leak if without risk. Contain spill and decontaminate the area using a disinfectant e.g. a 10% bleach for 20 min. Move containers from spill area. Dilute with water and mop up if water-soluble. Dispose of via a licensed waste disposal

contractor.

pShuttle Vector

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.

pShuttle-CMV Vector

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.

pShuttle-CMV-lacZ Control Vector

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.

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.

XL10-Gold

BJ5183-AD-1

electroporation

competent cells

Ultracompetent cells

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.

XL10-Gold 2-Mercaptoethanol 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.

pUC 18 DNA 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.

Transformation Control

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.

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SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

pShuttle-CMV Vector

Put on appropriate personal protective equipment (see

Section 8).

Put on appropriate personal protective equipment (see

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

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold

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

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

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. 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.

pUC 18 DNA Control Plasmid

Transformation Control

Put on appropriate personal protective equipment (see

Section 8).

Section 8).

Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene : AD-293 Cell Line >1 x 10e6 Viable Cells

Handle this product as biohazardous material under biosafety level (BSL)-2 containment. 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. 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. Potentially biohazardous material. 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.

pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

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SECTION 7: Handling and storage

XL10-Gold

Ultracompetent cells

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

Potentially biohazardous material. 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.

XL10-Gold

2-Mercaptoethanol

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. 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.

pUC 18 DNA Control

Plasmid

Transformation Control

7.2 Conditions for safe storage, including any incompatibilities

Storage

: AD-293 Cell Line >1 x 10e6 Viable Cells

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.

pShuttle Vector 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.

pShuttle-CMV Vector 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.

pShuttle-CMV-lacZ 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

Control Vector

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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.

BJ5183-AD-1 electroporation competent cells 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.

XL10-Gold Ultracompetent cells 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.

XL10-Gold 2-Mercaptoethanol 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. Store locked up. 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.

pUC 18 DNA 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.

Transformation Control

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)

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SECTION 7: Handling and storage

| , | J J - | |
|----------------------------|----------------------------------------------|-----------------------------------------------------|
| Recommendations | : AD-293 Cell Line >1 x 10e6 Viable Cells | Industrial applications, Professional applications. |
| | pShuttle Vector | Industrial applications, Professional applications. |
| | pShuttle-CMV Vector | Industrial applications, Professional applications. |
| | pShuttle-CMV-lacZ | Industrial applications, Professional applications. |
| | Control Vector | |
| | BJ5183-AD-1 | Industrial applications, Professional applications. |
| | electroporation | 11 , 11 |
| | competent cells | |
| | XL10-Gold | Industrial applications, Professional applications. |
| | Ultracompetent cells | |
| | XL10-Gold | Industrial applications, Professional applications. |
| | 2-Mercaptoethanol | |
| | pUC 18 DNA Control | Industrial applications, Professional applications. |
| | Plasmid | |
| | Transformation Control | Industrial applications, Professional applications. |
| Industrial sector specific | : AD-293 Cell Line >1 x | Not available. |
| solutions | 10e6 Viable Cells | |
| | pShuttle Vector | Not available. |
| | pShuttle-CMV Vector | Not available. |
| | pShuttle-CMV-lacZ | Not available. |
| | Control Vector | |
| | BJ5183-AD-1 | Not available. |
| | electroporation | |
| | competent cells | |
| | XL10-Gold | Not available. |
| | Ultracompetent cells | |
| | XL10-Gold | Not available. |
| | 2-Mercaptoethanol | |
| | pUC 18 DNA Control | Not available. |
| | Plasmid | |
| | Transformation Control | Not available. |

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|------------------------------------------|-------------------------------------------------------|
| BJ5183-AD-1 electroporation competent of | cells |
| Glycerol | NAOSH (Ireland, 5/2021). Notes: Advisory Occupational |
| • | Exposure Limit Values (OELVs) |
| | OELV: 10 mg/m³ 8 hours. Form: mist |
| XL10-Gold Ultracompetent cells | |
| Glycerol | NAOSH (Ireland, 5/2021). Notes: Advisory Occupational |
| • | Exposure Limit Values (OELVs) |
| | OELV: 10 mg/m³ 8 hours. Form: mist |
| Sucrose | NAOSH (Ireland, 5/2021). Notes: Advisory Occupational |
| | Exposure Limit Values (OELVs) |
| | OELV: 10 mg/m ³ 8 hours. |
| | OELV: 20 mg/m³ 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

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SECTION 8: Exposure controls/personal protection

agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

| Product/ingredient name | Type | Exposure | Value | Population | Effects |
|-----------------------------|------|--------------------------|------------------------|-----------------------|----------|
| XL10-Gold 2-Mercaptoethanol | | | | | |
| 2-Mercaptoethanol | DNEL | | 0.025 mg/ kg bw/day | General population | Systemic |
| | DNEL | Long term Oral | 0.025 mg/ kg bw/day | General population | Systemic |
| | DNEL | | 0.05 mg/kg bw/day | Workers | Systemic |
| | DNEL | | 0.05 mg/kg bw/day | Workers | Systemic |
| | | Short term Inhalation | 0.17 mg/m ³ | Workers | Systemic |
| | | Long term Inhalation | 0.17 mg/m ³ | Workers | Systemic |

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

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

Individual protection measures

Hygiene measures

: Handle as biohazard material (Biosafety level 1). 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. Contaminated work clothing should not be allowed out of the workplace. 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

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

Other skin protection

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

Respiratory protection

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

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.

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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

| _ | | | |
|------------------|----|------|------|
| Λn | nn | 212 | nce |
| \boldsymbol{A} | νc | aı a | IICE |

Odour

Physical state : AD-293 Cell Line >1 x Liquid.

10e6 Viable Cells

pShuttle Vector Liquid. pShuttle-CMV Vector Liquid. pShuttle-CMV-lacZ Liquid.

Control Vector

BJ5183-AD-1 Liquid.

electroporation competent cells

XL10-Gold Liquid.

Ultracompetent cells

XL10-Gold Liquid. 2-Mercaptoethanol

pUC 18 DNA Control Liquid.

Plasmid

Transformation Control Liquid.

Colour : AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Not available.

Not available.

Control Vector

Not available. BJ5183-AD-1

electroporation competent cells

XL10-Gold Not available.

Ultracompetent cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Not available.

Plasmid

Not available. Transformation Control Not available. : AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Not available.

Control Vector

BJ5183-AD-1 Not available.

electroporation competent cells

XL10-Gold Not available.

Ultracompetent cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Not available.

Plasmid

Transformation Control Not available. Not available.

Odour threshold : AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector

Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Not available.

Control Vector

Not available. BJ5183-AD-1

electroporation competent cells

XL10-Gold Not available.

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SECTION 9: Physical and chemical properties

Ultracompetent cells

XL10-Gold Not available.

2-Mercaptoethanol

pUC 18 DNA Control Not available.

Plasmid

Transformation Control Not available. Not available.

Melting point/freezing point

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

0°C

pShuttle-CMV Vector pShuttle-CMV-lacZ

0°C 0°C

Control Vector

BJ5183-AD-1 Not available.

electroporation competent cells

XL10-Gold Not available.

Ultracompetent cells

XL10-Gold Not available.

2-Mercaptoethanol pUC 18 DNA Control

Plasmid

 $0^{\circ}C$ Transformation Control

0°C

Initial boiling point and boiling range

: AD-293 Cell Line >1 x 10e6 Viable Cells

Not available.

pShuttle Vector 100°C pShuttle-CMV Vector 100°C pShuttle-CMV-lacZ 100°C

Control Vector

BJ5183-AD-1 Not available.

electroporation competent cells

XL10-Gold Not available.

Ultracompetent cells

XL10-Gold Not available.

2-Mercaptoethanol pUC 18 DNA Control

100°C

Plasmid

Transformation Control 100°C

Flammability

: AD-293 Cell Line >1 x

Not applicable.

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Not applicable. Not applicable. Not applicable.

Control Vector

Not applicable.

BJ5183-AD-1 electroporation competent cells

XL10-Gold Not applicable.

Ultracompetent cells

Not applicable.

XL10-Gold 2-Mercaptoethanol

Not applicable.

pUC 18 DNA Control

Plasmid

Not applicable. Transformation Control Not available.

Upper/lower flammability : AD-293 Cell Line >1 x or explosive limits

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Not available. Not available. Not available.

Control Vector BJ5183-AD-1

Not available.

electroporation competent cells

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SECTION 9: Physical and chemical properties

XL10-Gold

Not available.

Ultracompetent cells

XL10-Gold

Not available.

2-Mercaptoethanol pUC 18 DNA Control

Not available.

Plasmid

Transformation Control

Not available.

Flash point

| | Clo | sed cup | Open cup | |
|---------------------------------------------|-----|-----------|----------|--------|
| Ingredient name | °C | Method | °C | Method |
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | | |
| dimethyl sulfoxide | 87 | ASTM D 93 | 87 | - |
| BJ5183-AD-1 electroporation competent cells | | | | |
| glycerol | - | - | 177 | - |
| XL10-Gold Ultracompetent cells | | | | |
| dimethyl sulfoxide | 87 | ASTM D 93 | 87 | - |
| glycerol | - | - | 177 | - |
| XL10-Gold 2-Mercaptoethanol | | | | |
| 2-mercaptoethanol | 74 | _ | 74 | - |

Auto-ignition temperature

| 2 moroaptootilanor | | 1 7 | |
|-------------------------------------------|-----------|--------|--|
| Ingredient name | °C | Method | |
| AD-293 Cell Line >1 x 10e6 Viable Cell | s | | |
| dimethyl sulfoxide | 300 to 30 | 02 - | |
| BJ5183-AD-1 electroporation compete cells | ent | | |
| glycerol | 370 | - | |
| XL10-Gold Ultracompetent cells | | | |
| dimethyl sulfoxide | 300 to 30 |)2 - | |
| glycerol | 370 | - | |
| XL10-Gold 2-Mercaptoethanol | | | |
| 2-mercaptoethanol | 295 | - | |

Decomposition temperature

: AD-293 Cell Line >1 x

Not available.

10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Not available. Not available. Not available.

Control Vector BJ5183-AD-1

Not available.

electroporation competent cells

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SECTION 9: Physical and chemical properties

XL10-Gold Not available. Ultracompetent cells XL10-Gold Not available. 2-Mercaptoethanol pUC 18 DNA Control Not available. Plasmid **Transformation Control** Not available. : AD-293 Cell Line >1 x 7.5 10e6 Viable Cells pShuttle Vector 7.5 pShuttle-CMV Vector 7.5 pShuttle-CMV-lacZ 7.5 Control Vector BJ5183-AD-1 Not available. electroporation competent cells XL10-Gold 6.4 Ultracompetent cells XL10-Gold Not available. 2-Mercaptoethanol pUC 18 DNA Control 7.5 Plasmid **Transformation Control** 7.5 : AD-293 Cell Line >1 x Not available. 10e6 Viable Cells pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Not available. Control Vector BJ5183-AD-1 Not available. electroporation competent cells XL10-Gold Not available. Ultracompetent cells XL10-Gold Not available. 2-Mercaptoethanol pUC 18 DNA Control Not available. Plasmid **Transformation Control** Not available.

Solubility(ies)

Viscosity

pH

| Media | Result |
|---------------------------------------------------|---------|
| AD-293 Cell Line >1 x 10e6 Viable Cells | |
| water | Soluble |
| pShuttle Vector | |
| water | Soluble |
| pShuttle-CMV Vector | |
| water | Soluble |
| pShuttle-CMV-lacZ Control Vector | |
| water | Soluble |
| BJ5183-AD-1 electroporation competent cells water | Soluble |
| XL10-Gold Ultracompetent cells | Soluble |
| water | Soluble |
| XL10-Gold 2-Mercaptoethanol | Colubio |
| water | Soluble |
| pUC 18 DNA Control Plasmid | |
| water | Soluble |
| Transformation Control | |
| water | Soluble |

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Partition coefficient: noctanol/water : AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Not applicable.

Not applicable.

Not applicable.

Not applicable.

Control Vector

BJ5183-AD-1 Not applicable.

electroporation competent cells

XL10-Gold Not applicable.

Ultracompetent cells

XL10-Gold Not applicable.

2-Mercaptoethanol pUC 18 DNA Control

Not applicable.

Not applicable.

. Plasmid

Transformation Control Not applicable.

Vapour pressure

| | Vapour | Pressure | e at 20°C | Vap | our press | sure at 50°C |
|---------------------------------------------------|----------|----------|-----------|----------|-----------|--------------|
| Ingredient name | mm Hg | kPa | Method | mm Hg | kPa | Method |
| AD-293 Cell Line >1 x 10e6 Viable Cells | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| dimethyl sulfoxide | 0.42 | 0.056 | EU A.4 | - | - | - |
| pShuttle Vector | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| pShuttle-CMV Vector | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| pShuttle-CMV-lacZ Control Vector | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| BJ5183-AD-1 electroporation competent cells | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| glycerol | 0.000075 | 0.00001 | - | 0.0025 | 0.00033 | - |
| XL10-Gold Ultracompetent cells | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| dimethyl sulfoxide | 0.42 | 0.056 | EU A.4 | - | - | - |
| 1 | <u> </u> | | | <u> </u> | | |

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SECTION 9: Physical and chemical properties

| XL10-Gold 2-Mercaptoethanol | | | | | | |
|----------------------------------------|---------|------|---|--------|------|---|
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| 2-mercaptoethanol | 0.97508 | 0.13 | - | - | - | - |
| pUC 18 DNA Control Plasmid water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |
| Transformation Control | | | | | | |
| water | 17.5 | 2.3 | - | 92.258 | 12.3 | - |

Evaporation rate

Relative density

Vapour density

: AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector BJ5183-AD-1

electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control

: AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation

competent cells

XL10-Gold Ultracompetent cells

XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control : AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector

pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold

2-Mercaptoethanol

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Not available.

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SECTION 9: Physical and chemical properties

pUC 18 DNA Control Not available. Plasmid Transformation Control Not available. : AD-293 Cell Line >1 x Not available. **Explosive properties** 10e6 Viable Cells pShuttle Vector Not available. pShuttle-CMV Vector Not available. pShuttle-CMV-lacZ Not available. Control Vector Not available. BJ5183-AD-1

electroporation competent cells XL10-Gold

Ultracompetent cells

XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control : AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control Plasmid

Transformation Control

Not available.

Not available.

Not available.

Not available.

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Particle characteristics Median particle size

Oxidising properties

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1

electroporation competent cells XL10-Gold

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control

Plasmid **Transformation Control** Not applicable.

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

9.2 Other information

No additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

pShuttle-CMV Vector

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1

XL10-Gold

Plasmid

electroporation

competent cells XL10-Gold

Ultracompetent cells

2-Mercaptoethanol pUC 18 DNA Control

Transformation Control

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.

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.

No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability

AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control Plasmid

Transformation Control

The product is stable.

The product is stable. The product is stable. The product is stable.

The product is stable.

The product is stable.

The product is stable.

The product is stable.

The product is stable.

10.3 Possibility of hazardous reactions

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

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

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

pShuttle-CMV Vector

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

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells

Under normal conditions of storage and use, hazardous

reactions will not occur.

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

XL10-Gold

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

Ultracompetent cells XL10-Gold

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

2-Mercaptoethanol pUC 18 DNA Control

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

Plasmid

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

Transformation Control

SECTION 10: Stability and reactivity

10.4 Conditions to avoid

AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

No specific data. No specific data.

No specific data.

pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

No specific data.

BJ5183-AD-1 electroporation competent cells No specific data.

XL10-Gold Ultracompetent cells No specific data.

XL10-Gold

No specific data.

2-Mercaptoethanol pUC 18 DNA Control

No specific data.

Plasmid

Transformation Control

No specific data.

10.5 Incompatible materials

: AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells

May react or be incompatible with oxidising materials.

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

XL10-Gold

May react or be incompatible with oxidising materials.

Ultracompetent cells XL10-Gold 2-Mercaptoethanol

May react or be incompatible with oxidising materials.

pUC 18 DNA Control

May react or be incompatible with oxidising materials.

Plasmid

May react or be incompatible with oxidising materials.

Transformation Control

May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

pShuttle-CMV Vector

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

pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold Ultracompetent cells XL10-Gold 2-Mercaptoethanol pUC 18 DNA 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.

Transformation Control

SECTION 11: Toxicological information

11.1 Information on toxicological effects **Acute toxicity**

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Ireland

AdEasy XL Adenoviral Vector System Kit, Part Number 240010

SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|-----------------------------------------------|-----------|---------|-----------|----------|
| XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | LD50 Oral | Rat | 244 mg/kg | |

Acute toxicity estimates

| Product/ingredient name | Oral (mg/ kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------------------------------------------------------------|------------------|-------------------|--------------------------------|-----------------------------------|----------------------------------------------|
| XL10-Gold 2-Mercaptoethanol XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | | | N/A N/A | 60.7 3 | N/A N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--------------------------------|------------------------|---------|-------|----------|-------------|
| XL10-Gold 2-Mercaptoethanol | | | | | |
| 2-Mercaptoethanol | Eyes - Severe irritant | Rabbit | - | 2 mg | - |

Sensitiser

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

: Not available. **Conclusion/Summary** Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|--------------------------------------------------|------------|-------------------|---------------|
| XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | Category 2 | - | heart, liver |

Aspiration hazard

Not available.

Information on likely routes of exposure

: AD-293 Cell Line >1 x

10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector

BJ5183-AD-1 electroporation

competent cells

XL10-Gold

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control

Plasmid

Transformation Control

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

Not available.

Not available. Not available.

Not available.

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

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

Not available.

Not available.

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SECTION 11: Toxicological information

Potential acute health effects Inhalation : AD-293 Cell Line >1 x No known significant effects or critical hazards. 10e6 Viable Cells pShuttle Vector No known significant effects or critical hazards. pShuttle-CMV Vector No known significant effects or critical hazards. pShuttle-CMV-lacZ No known significant effects or critical hazards. Control Vector BJ5183-AD-1 No known significant effects or critical hazards. electroporation competent cells XL10-Gold No known significant effects or critical hazards. Ultracompetent cells XL10-Gold No known significant effects or critical hazards. 2-Mercaptoethanol pUC 18 DNA Control No known significant effects or critical hazards. Plasmid **Transformation Control** No known significant effects or critical hazards. Ingestion : AD-293 Cell Line >1 x No known significant effects or critical hazards. 10e6 Viable Cells pShuttle Vector No known significant effects or critical hazards. pShuttle-CMV Vector No known significant effects or critical hazards. pShuttle-CMV-lacZ No known significant effects or critical hazards. Control Vector BJ5183-AD-1 No known significant effects or critical hazards. electroporation competent cells XL10-Gold No known significant effects or critical hazards. Ultracompetent cells XL10-Gold No known significant effects or critical hazards. 2-Mercaptoethanol pUC 18 DNA Control No known significant effects or critical hazards. Plasmid No known significant effects or critical hazards. Transformation Control **Skin contact** : AD-293 Cell Line >1 x No known significant effects or critical hazards. 10e6 Viable Cells pShuttle Vector No known significant effects or critical hazards. pShuttle-CMV Vector No known significant effects or critical hazards. pShuttle-CMV-lacZ No known significant effects or critical hazards. Control Vector BJ5183-AD-1 No known significant effects or critical hazards. electroporation competent cells XL10-Gold No known significant effects or critical hazards. Ultracompetent cells XL10-Gold May cause an allergic skin reaction. 2-Mercaptoethanol pUC 18 DNA Control No known significant effects or critical hazards. No known significant effects or critical hazards. Transformation Control No known significant effects or critical hazards.

Eye contact

AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.

No known significant effects or critical hazards.

Causes serious eye damage.

No known significant effects or critical hazards.

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SECTION 11: Toxicological information

Plasmid

Transformation Control No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : AD-293 Cell Line >1 x No specific data.

10e6 Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. No specific data. pShuttle-CMV-lacZ

Control Vector

BJ5183-AD-1 No specific data.

electroporation competent cells

XL10-Gold No specific data.

Ultracompetent cells

XL10-Gold Adverse symptoms may include the following:

2-Mercaptoethanol

reduced foetal weight increase in foetal deaths skeletal malformations No specific data.

pUC 18 DNA Control

Plasmid

Transformation Control No specific data. : AD-293 Cell Line >1 x No specific data.

Ingestion

10e6 Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ No specific data.

Control Vector

BJ5183-AD-1 No specific data.

electroporation competent cells

XL10-Gold No specific data.

Ultracompetent cells

XL10-Gold

Adverse symptoms may include the following:

No specific data.

2-Mercaptoethanol stomach pains

reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control

Plasmid

Skin contact

Transformation Control No specific data. AD-293 Cell Line >1 x No specific data.

10e6 Viable Cells

pShuttle Vector No specific data. pShuttle-CMV Vector No specific data. pShuttle-CMV-lacZ No specific data.

Control Vector

BJ5183-AD-1 No specific data.

electroporation competent cells

XL10-Gold No specific data.

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol

Adverse symptoms may include the following:

pain or irritation redness

blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control

Plasmid

No specific data.

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SECTION 11: Toxicological information

Eye contact

Transformation Control No specific data. : AD-293 Cell Line >1 x No specific data.

10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells

XL10-Gold

2-Mercaptoethanol

No specific data.

Adverse symptoms may include the following:

watering redness

pUC 18 DNA Control

Plasmid

Transformation Control

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

Carcinogenicity

: Not available.

General

: AD-293 Cell Line >1 x 10e6 Viable Cells

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold

Ultracompetent cells

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control

Plasmid

Transformation Control AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector BJ5183-AD-1

electroporation competent cells

XL10-Gold Ultracompetent cells No known significant effects or critical hazards.

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Once sensitized, a severe allergic reaction may occur when

subsequently exposed to very low levels. No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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SECTION 11: Toxicological information

XL10-Gold
2-Mercaptoethanol
pUC 18 DNA Control
Plasmid
Transformation Control
: AD-293 Cell Line >1 x
10e6 Viable Cells
pShuttle Vector
pShuttle-CMV Vector
pShuttle-CMV-lacZ
Control Vector
BJ5183-AD-1
electroporation

competent cells
XL10-Gold
Ultracompetent cells
XL10-Gold
2-Mercaptoethanol
pUC 18 DNA Control

Plasmid

Transformation Control : AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 electroporation competent cells XL10-Gold

Ultracompetent cells XL10-Gold

2-Mercaptoethanol pUC 18 DNA Control Plasmid

Transformation Control

Transformation Control

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

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

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Suspected of damaging fertility.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

Mutagenicity

11.2.2 Other information

Reproductive toxicity

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|--------------------------------|---------------------------------|---------|----------|
| XL10-Gold 2-Mercaptoethanol | | | |
| • | Acute EC50 0.4 mg/l Fresh water | Daphnia | 48 hours |

12.2 Persistence and degradability

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SECTION 12: Ecological information

| Product/ingredient name | Test | Result | | Dose | | Inoculum |
|-----------------------------------------------|--------------------------------------------------------------------------|--------|---------------------|---------|---------|------------|
| XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test) | | t readily - 60 days | 20 mg/l | | - |
| Product/ingredient name | Aquatic half-life | | Photolysis | | Biodeg | radability |
| XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol | - | | - | | Not rea | dily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|--------------------------------|--------|-----|-----------|
| XL10-Gold 2-Mercaptoethanol | | | |
| 2-Mercaptoethanol | -0.056 | - | Low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})

: Not available.

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.

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

Packaging

Methods of disposal

: The classification of the product may meet the criteria for a hazardous waste.

: 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.

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SECTION 13: Disposal considerations

Special precautions

: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

| | 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 EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

| Product / Ingredient name | Identifiers | Designation [Usage] |
|------------------------------------------------------------|-------------|---------------------|
| XL10-Gold 2-Mercaptoethanol XL10-Gold 2-Mercaptoethanol | | 3 |

Label

: AD-293 Cell Line >1 x 10e6 Not applicable.

Viable Cells

pShuttle Vector Not applicable. pShuttle-CMV Vector Not applicable. pShuttle-CMV-lacZ Control Not applicable.

Vector

BJ5183-AD-1 electroporation Not applicable.

competent cells

XL10-Gold Ultracompetent Not applicable.

cells

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SECTION 15: Regulatory information

XL10-Gold 2-Mercaptoethanol Not applicable. pUC 18 DNA Control Plasmid Not applicable. Transformation Control Not applicable.

Other EU regulations

Industrial emissions : Listed

(integrated pollution prevention and control)

- Air

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 : Russian Federation inventory: Not determined.

: Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): All components are listed or exempted.

New Zealand : Not determined. **Philippines** Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam** : Not determined.

15.2 Chemical safety

assessment

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

be required.

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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 |
|-----------------------------|--------------------|
| XL10-Gold 2-Mercaptoethanol | |
| Eye Dam. 1, H318 | Calculation method |
| Skin Sens. 1, H317 | Calculation method |
| Repr. 2, H361f | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

Full text of abbreviated H statements

| XL10-Gold 2-Mercaptoethanol | |
|-----------------------------|----------------------------------------------------------|
| H301 | Toxic if swallowed. |
| H310 | Fatal in contact with skin. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H331 | Toxic if inhaled. |
| H361f | Suspected of damaging fertility. |
| H373 | May cause damage to organs through prolonged or repeated |
| | exposure. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]

| XL10-Gold 2-Mercaptoethanol | |
|-----------------------------|----------------------------------------------------|
| Acute Tox. 2 | ACUTE TOXICITY - Category 2 |
| Acute Tox. 3 | ACUTE TOXICITY - Category 3 |
| Aquatic Acute 1 | SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 |
| Aquatic Chronic 2 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 |
| Aquatic Chronic 3 | LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 |
| Eye Dam. 1 | SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 |
| Repr. 2 | REPRODUCTIVE TOXICITY - Category 2 |
| Skin Irrit. 2 | SKIN CORROSION/IRRITATION - Category 2 |
| Skin Sens. 1 | SKIN SENSITISATION - Category 1 |
| Skin Sens. 1A | SKIN SENSITISATION - Category 1A |
| STOT RE 2 | SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE |
| | - Category 2 |

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