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 pShuttle-CMV Vector 240007-51 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

pShuttle Vector $0.02 \text{ ml} (20 \mu \text{g} 1 \mu \text{g/}\mu \text{l})$ 0.02 ml (20 µg 1 µg/µl) pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector $0.01 \text{ ml} (10 \mu g \ 1 \mu g/\mu l)$

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 LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

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

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone number (with hours of : 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 Category 1 H317 SKIN SENSITISATION H361f REPRODUCTIVE TOXICITY Category 2 H412 LONG-TERM (CHRONIC) AQUATIC HAZARD Category 3

AD-293 Cell Line >1 x 10e6 Viable Cells The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

The product is not classified as hazardous according to UK CLP pShuttle Vector

Regulation SI 2019/720 as amended.

pShuttle-CMV Vector The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

pShuttle-CMV-lacZ Control Vector The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

BJ5183-AD-1 electroporation competent cells The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

XL10-Gold Ultracompetent cells The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

XL10-Gold 2-Mercaptoethanol The product is classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

The product is not classified as hazardous according to UK CLP pUC 18 DNA Control Plasmid

Regulation SI 2019/720 as amended.

Transformation Control The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ingredients of unknown

toxicity

: BJ5183-AD-1

electroporation competent unknown acute inhalation toxicity: 10 - 30%

cells

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

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%

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

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

Ingredients of unknown

ecotoxicity

BJ5183-AD-1

electroporation competent

aquatic environment

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

Contains 2.3% 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. 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 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. No known significant effects or critical hazards. pUC 18 DNA Control 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. pUC 18 DNA Control Not applicable. Plasmid **Transformation Control** Not applicable. : AD-293 Cell Line >1 x Response 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

electroporation

SECTION 2: Hazards identification

competent cells

XL10-Gold

Not applicable.

Ultracompetent cells XL10-Gold

2-Mercaptoethanol

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

Not applicable. Not applicable.

: AD-293 Cell Line >1 x **Storage**

10e6 Viable Cells

Not applicable. Not applicable.

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

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

Plasmid

Not applicable.

Transformation Control

Not applicable.

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

Not applicable.

pShuttle Vector pShuttle-CMV Vector pShuttle-CMV-lacZ

Not applicable. Not applicable. Not applicable.

Control Vector BJ5183-AD-1

Not applicable.

electroporation competent cells

XL10-Gold Ultracompetent cells

Not applicable.

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control

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

Not applicable.

Plasmid

Transformation Control Not applicable.

: XL10-Gold

2-mercaptoethanol

Supplemental label elements

Hazardous ingredients

Disposal

2-Mercaptoethanol : AD-293 Cell Line >1 x

Not applicable.

10e6 Viable Cells pShuttle Vector Not applicable. Not applicable. pShuttle-CMV Vector pShuttle-CMV-lacZ

Control Vector

BJ5183-AD-1

Not applicable.

Safety data sheet available on request.

electroporation competent cells

Safety data sheet available on request.

XL10-Gold Ultracompetent cells

XL10-Gold Not applicable.

2-Mercaptoethanol

pUC 18 DNA Control

Not applicable.

Plasmid

Transformation Control 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

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

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

Containers to be fitted with child-resistant fastenings

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

: MD-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.

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

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

pShuttle-CMV Vector

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

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SECTION 2: Hazards identification

XI 10-Gold This mixture does not contain any substances that are

Ultracompetent cells assessed to be a PBT or a vPvB.

XL10-Gold This mixture does not contain any substances that are

2-Mercaptoethanol assessed to be a PBT or a vPvB.

pUC 18 DNA Control This mixture does not contain any substances that are

None known.

None known.

Plasmid assessed to be a PBT or a vPvB.

Transformation Control 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 None known. pShuttle-CMV Vector None known. pShuttle-CMV-lacZ None known.

Control Vector BJ5183-AD-1 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.

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

SECTION 3: Composition/information on ingredients

: AD-293 Cell Line >1 x 10e6 Viable 3.1 Substances 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 Mixture XL10-Gold 2-Mercaptoethanol Mixture pUC 18 DNA Control Plasmid Mixture Transformation Control Mixture

rranc	normation Control	MIXIG		
Product/ingredient name	Identifiers	%	Classification	Туре
B J5183-AD-1 electroporation competent cells				
Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≤10	Not classified.	[1]
XL10-Gold Ultracompetent cells				
Glycerol	UK (GB) REACH #: Annex V REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	[1]
Sucrose	UK (GB) REACH #: Annex IV 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	[1]

Date of issue/Date of revision : 02/02/2024 Date of previous issue : 08/02/2021 Version 6/40 SECTION 3: Composition/information on ingredients

| Eye Dam. 1, H318 | Skin Sens. 1A, H317 | Repr. 2, H361f | STOT RE 2, H373 | (heart, liver) | Aquatic Acute 1, H400 | (M=1) | Aquatic Chronic 2, H411 | 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.

<u>Type</u>

■J5183-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

[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

: 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

Inhalation

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

pShuttle 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.

above.

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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

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SECTION 4: First aid measures

pShuttle-CMV Vector Rem

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

occur.

pShuttle-CMV-lacZ Control Vector Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

occur

BJ5183-AD-1 electroporation competent cells XL10-Gold Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms

occur

Ultracompetent cells

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

occur

XL10-Gold 2-Mercaptoethanol Get medical attention immediately. Call a poison center or 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.

pShuttle-CMV Vector

Flush contaminated skin with plenty of water. Remove 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.

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SECTION 4: First aid measures

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.

pShuttle 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 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

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.

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.

Transformation Control

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.

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

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SECTION 4: First aid measures

XL10-Gold

Ultracompetent cells XL10-Gold

2-Mercaptoethanol

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 selfcontained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before

removing it, or wear gloves.

pUC 18 DNA Control

Plasmid

Transformation Control

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 Over-exposure signs/symptoms

: AD-293 Cell Line >1 x **Eye contact**

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

No specific data.

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

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

No specific data.

No specific data.

No specific data.

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

No specific data.

No specific data.

Adverse symptoms may include the following:

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

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 No specific data.

No specific data.

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

No specific data.

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SECTION 4: First aid measures

XL10-Gold

Ultracompetent cells

XL10-Gold

2-Mercaptoethanol

No specific data.

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

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

No specific data.

No specific data. No specific data.

No specific data. No specific data.

No specific data.

No specific data.

No specific data.

Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control

Plasmid

Transformation Control

No specific data. 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.

Specific treatments

: 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 treatment.

No specific treatment. No specific treatment. No specific treatment.

No specific treatment.

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SECTION 4: First aid measures

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 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

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

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. Use an extinguishing agent suitable for the surrounding fire.

2-Mercaptoethanol pUC 18 DNA Control Plasmid

Use an extinguishing agent suitable for the surrounding fire.

Transformation Control

Use an extinguishing agent suitable for the surrounding fire.

None known.

Unsuitable extinguishing media

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

None known. None known. None known.

BJ5183-AD-1 electroporation competent cells None known.

XL10-Gold

None known.

Ultracompetent cells XL10-Gold

None known.

2-Mercaptoethanol pUC 18 DNA Control

None known.

Plasmid

5.2 Special hazards arising from the substance or mixture

None known.

Transformation Control

Hazards from the substance or mixture : AD-293 Cell Line >1 x 10e6 Viable Cells pShuttle Vector

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

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

pShuttle-CMV Vector

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

container may burst.

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

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

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

XL10-Gold Ultracompetent cells

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

XL10-Gold 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

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SECTION 5: Firefighting measures

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

discharged to any waterway, sewer or drain.

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. No specific data.

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

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

No specific data.

XL10-Gold Ultracompetent cells Decomposition products may include the following materials:

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 No specific data.

pUC 18 DNA Control

Plasmid

Transformation Control

No specific data.

5.3 Advice for firefighters Special protective actions for fire-fighters

: 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

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. 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

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SECTION 5: Firefighting measures

Plasmid

Transformation Control

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.

Special protective equipment for fire-fighters

: AD-293 Cell Line >1 x 10e6 Viable Cells Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

pShuttle Vector Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

pShuttle-CMV Vector Fire-fighters should wear appropriate protective equipment

and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

pShuttle-CMV-lacZ Control Vector Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

BJ5183-AD-1 electroporation competent cells XL10-Gold Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

Ultracompetent cells

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

face-piece operated in positive pressure mode.

XL10-Gold 2-Mercaptoethanol Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

face-piece operated in positive pressure mode.

pUC 18 DNA Control

Plasmid

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

face-piece operated in positive pressure mode.

Transformation Control

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

face-piece operated in positive pressure mode.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: 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

No action shall be taken involving any personal risk or without

personal protective equipment.

XL10-Gold

Ultracompetent cells suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do

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SECTION 6: Accidental release measures

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 nonemergency personnel".

pShuttle-CMV 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 nonemergency personnel".

pShuttle-CMV-lacZ Control 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 nonemergency 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 nonemergency personnel".

XL10-Gold 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 nonemergency 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 nonemergency 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 nonemergency 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

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

authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

Avoid dispersal of spilt material and runoff and contact with

XL10-Gold

2-Mercaptoethanol 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).

soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

6.3 Methods and material for containment and cleaning up

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.

BJ5183-AD-1 electroporation competent 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

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.

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SECTION 6: Accidental release measures

XI 10-Gold

Stop leak if without risk. Move containers from spill area. 2-Mercaptoethanol 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.

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

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

2-Mercaptoethanol

XL10-Gold

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

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

Put on appropriate personal protective equipment (see

Section 8).

Put on appropriate personal protective equipment (see

Section 8).

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

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

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).

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.

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SECTION 7: Handling and storage

pShuttle Vector 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.

pShuttle-CMV Vector 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.

pShuttle-CMV-lacZ Eating, drinking and smoking should be prohibited in areas

Control Vector 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.

BJ5183-AD-1 Potentially biohazardous material. Eating, drinking and electroporation competent cells

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

Ultracompetent cells

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 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

Eating, drinking and smoking should be prohibited in areas

for additional information on hygiene measures.

pUC 18 DNA Control

Plasmid

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

Transformation Control Eating, drinking and smoking should be prohibited in areas

where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8

for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

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 wellventilated 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

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SECTION 7: Handling and storage

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 Control 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.

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

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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 wellventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

7.3 Specific end use(s)

Recommendations

Industrial sector specific

solutions

: 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

Industrial applications, Professional applications.

Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Industrial applications, Professional applications.

Not available.

Not available. Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
BJ5183-AD-1 electroporation competent cells Glycerol	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist
XL10-Gold Ultracompetent cells Glycerol Sucrose	EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 mg/m³ 8 hours. Form: Mist EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 20 mg/m³ 15 minutes. TWA: 10 mg/m³ 8 hours.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. 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	Short term Oral	0.025 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.025 mg/ kg bw/day	General population	Systemic
	DNEL	Short term Dermal	0.05 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Dermal	0.05 mg/ kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	0.17 mg/m³	Workers	Systemic
	DNEL	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

: Mandle 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

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SECTION 8: Exposure controls/personal 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.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

Appearance

Physical state : 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 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.

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Not available.

SECTION 9: Physical and chemical properties

SECTION 9: Physic	cai and chemical pro	pperties
Odour	: AD-293 Cell Line >1 x 10e6 Viable Cells	Not available.
	pShuttle Vector	Not available.
	pShuttle-CMV Vector	Not available.
	pShuttle-CMV-lacZ Control Vector	Not available.
	BJ5183-AD-1 electroporation	Not available.
	competent cells XL10-Gold Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	Not available.
	Transformation Control	Not available.
Odour threshold	: AD-293 Cell Line >1 x 10e6 Viable Cells	Not available.
	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 Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	Not available.
	Transformation Control	Not available.
Melting point/freezing point	: AD-293 Cell Line >1 x 10e6 Viable Cells	Not available.
•	pShuttle Vector	0°C
	pShuttle-CMV Vector	0°C
	pShuttle-CMV-lacZ	0°C
	Control Vector BJ5183-AD-1	Not available.
	electroporation competent cells	
	XL10-Gold Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	0°C
	Transformation Control	0°C
Initial boiling point and boiling range	: AD-293 Cell Line >1 x 10e6 Viable Cells	Not available.
3 3 3	pShuttle Vector	100°C
	pShuttle-CMV Vector	100°C
	pShuttle-CMV-lacZ	100°C
	Control Vector	
	BJ5183-AD-1 electroporation	Not available.
	competent cells XL10-Gold Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	100°C

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SECTION 9: Physical and chemical properties

Flammability

100°C **Transformation Control** Not applicable.

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

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

Plasmid

Transformation Control Not applicable. Not available.

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

10e6 Viable Cells pShuttle Vector Not available. pShuttle-CMV Vector Not available.

Not available. pShuttle-CMV-lacZ Control Vector BJ5183-AD-1 Not available. electroporation

competent cells XL10-Gold

Not available.

Ultracompetent cells XL10-Gold 2-Mercaptoethanol

Not available.

pUC 18 DNA Control

Not available.

Plasmid

Transformation Control Not available.

Flash point

	Closed cup		Op	en 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

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SECTION 9: Physical and chemical properties

Ingredient name	°C	Method
AD-293 Cell Line >1 x 10e6 Viable Cells		
dimethyl sulfoxide	300 to 302	-
BJ5183-AD-1 electroporation competent cells		
glycerol	370	-
XL10-Gold Ultracompetent cells		
dimethyl sulfoxide	300 to 302	-
glycerol	370	-
XL10-Gold 2-Mercaptoethanol		
2-mercaptoethanol	295	-

Decomposition temperature

: 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.

pН

: 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 Not available.

BJ5183-AD-1 electroporation competent cells XL10-Gold

6.4

Ultracompetent cells XL10-Gold

Not available.

2-Mercaptoethanol pUC 18 DNA Control Plasmid

7.5

7.5

Transformation Control

Viscosity

: 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 electroporation competent cells Not available.

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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.

Solubility(ies)

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

Partition coefficient: noctanol/water

: 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

BJ5183-AD-1 electroporation Not applicable.

competent cells

XL10-Gold

Not applicable.

Ultracompetent cells

XL10-Gold

Not applicable.

2-Mercaptoethanol

pUC 18 DNA Control

Not applicable.

Plasmid

Transformation Control Not applicable.

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50		
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	17.5	2.3		92.258	12.3	
pShuttle-CMV	17.3	2.3	-	92.236	12.5	-

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SECTION 9: Physical and chemical properties

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	-	-	-
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

: AD-293 Cell Line >1 x 10e6 Viable Cells Not available.

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

Control Vector BJ5183-AD-1

Not available.

electroporation competent cells

competent cells XL10-Gold

Not available.

Ultracompetent cells

Not available.

XL10-Gold 2-Mercaptoethanol

pUC 18 DNA Control

Not available.

. Plasmid

Transformation Control Not available.

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SECTION 9: Physical and chemical properties

SECTION 9: Physical	and chemical pro	perties
Relative density :	AD-293 Cell Line >1 x 10e6 Viable Cells	Not available.
	pShuttle Vector	Not available.
	pShuttle-CMV Vector	Not available.
	pShuttle-CMV-lacZ	Not available.
	Control Vector BJ5183-AD-1 electroporation	Not available.
	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.
Vapour density :	AD-293 Cell Line >1 x	Not available.
vapour density .	10e6 Viable Cells	
	pShuttle Vector	Not available.
	pShuttle-CMV Vector	Not available.
	pShuttle-CMV-lacZ Control Vector	Not available.
	BJ5183-AD-1 electroporation	Not available.
	competent cells XL10-Gold Ultracompetent cells	Not available.
	XL10-Gold 2-Mercaptoethanol	Not available.
	pUC 18 DNA Control Plasmid	Not available.
	Transformation Control	Not available.
Explosive properties :	AD-293 Cell Line >1 x 10e6 Viable Cells	Not available.
	pShuttle Vector	Not available.
	pShuttle-CMV Vector	Not available.
	pShuttle-CMV-lacZ	Not available.
	Control Vector	
	BJ5183-AD-1 electroporation	Not available.
	competent cells XL10-Gold	Not available.
	Ultracompetent cells XL10-Gold	Not available.
	2-Mercaptoethanol pUC 18 DNA Control Plasmid	Not available.
	Transformation Control	Not available.
Oxidising properties :	AD-293 Cell Line >1 x 10e6 Viable Cells	Not available.
	pShuttle Vector	Not available.
	pShuttle-CMV Vector	Not available.
	pShuttle-CMV-lacZ	Not available.
	Control Vector	
	BJ5183-AD-1 electroporation	Not available.
	competent cells XL10-Gold	Not available.
	Ultracompetent cells XL10-Gold	Not available.
	2-Mercaptoethanol pUC 18 DNA Control	Not available.
	Plasmid	

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SECTION 9: Physical and chemical properties

Particle characteristics Median particle size

Transformation Control Not available.

: 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

Not applicable. Not applicable. Not applicable.

Not applicable.

Not applicable.

XL10-Gold Ultracompetent cells XL10-Gold

Not applicable.

2-Mercaptoethanol

Not applicable.

pUC 18 DNA Control

Not applicable.

Plasmid

Not applicable.

Transformation Control

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

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

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.

pShuttle-CMV Vector

No specific test data related to reactivity available for this

product or its ingredients.

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

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

XL10-Gold

No specific test data related to reactivity available for this

Ultracompetent cells

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

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control product or its ingredients. No specific test data related to reactivity available for this

Plasmid **Transformation Control** 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

The product is stable.

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

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

The product is stable.

XL10-Gold Ultracompetent cells The product is stable.

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control

The product is stable.

Plasmid

The product is stable.

Transformation Control

The product is stable.

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SECTION 10: Stability and reactivity

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 Ultracompetent cells

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

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control Under normal conditions of storage and use, hazardous reactions will not occur.

Plasmid

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

Transformation Control

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

10.4 Conditions to avoid

: 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

No specific data.

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

No specific data.

XL10-Gold Ultracompetent cells No specific data.

XL10-Gold 2-Mercaptoethanol pUC 18 DNA Control No specific data.

Plasmid

No specific data.

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.

May react or be incompatible with oxidising materials.

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

Plasmid

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

Transformation Control

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

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

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

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SECTION 10: Stability and reactivity

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

Transformation Control

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.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
B J5183-AD-1 electroporation competent cells				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
XL10-Gold Ultracompetent cells				
Glycerol	LD50 Oral	Rat	12600 mg/kg	-
Sucrose	LD50 Oral	Rat	29700 mg/kg	-
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)
BJ5183-AD-1 electroporation competent cells Glycerol	12600	N/A	N/A	N/A	N/A
XL10-Gold Ultracompetent cells Glycerol Sucrose	12600 29700	N/A N/A	N/A N/A	N/A N/A	N/A N/A
XL10-Gold 2-Mercaptoethanol XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol	5545.5 244	4545.5 200	N/A N/A	60.7 3	N/A N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
J5183-AD-1 electroporation competent cells					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
XL10-Gold Ultracompetent cells					
Glycerol	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-

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SECTION 11: Toxicological information

				mg	
XL10-Gold 2-Mercaptoethanol					
2-Mercaptoethanol	Eyes - Severe irritant	Rabbit	-	2 mg	-

Sensitiser

Conclusion/Summary

Conclusion/Summary

Mutagenicity

: Not available.

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.

Potential acute health effects

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

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

Skin contact

Eye contact

Ingestion	: AD-293 Cell Line >1 x	No
3	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

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 pUC 18 DNA Control

Plasmid **Transformation Control** No known significant effects or critical hazards. o 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.

May cause an allergic skin reaction.

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.

Causes serious eye damage.

No known significant effects or critical hazards.

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

pShuttle-CMV Vector pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1 electroporation competent cells

XL10-Gold Ultracompetent cells XL10-Gold

No specific data. No specific data.

No specific data.

No specific data.

No specific data.

Adverse symptoms may include the following:

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SECTION 11: Toxicological information

2-Mercaptoethanol

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

pUC 18 DNA Control

Plasmid

No specific data. No specific data.

Transformation Control : AD-293 Cell Line >1 x

10e6 Viable Cells pShuttle Vector pShuttle-CMV Vector

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

pShuttle-CMV-lacZ Control Vector

BJ5183-AD-1

No specific data.

electroporation competent cells XL10-Gold

Ultracompetent cells

No specific data.

XL10-Gold

2-Mercaptoethanol

Adverse symptoms may include the following:

stomach pains

reduced foetal weight increase in foetal deaths skeletal malformations

pUC 18 DNA Control

Plasmid

No specific data.

Transformation Control No specific data.

Skin contact

Ingestion

AD-293 Cell Line >1 x

No specific data. 10e6 Viable Cells

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

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

BJ5183-AD-1 electroporation No specific data.

competent cells XL10-Gold

Ultracompetent cells

No specific data.

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

No specific data.

Eye contact : AD-293 Cell Line >1 x

10e6 Viable Cells

No specific data.

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

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

BJ5183-AD-1 electroporation No specific data.

competent cells XL10-Gold

No specific data.

Ultracompetent cells XL10-Gold

Adverse symptoms may include the following:

2-Mercaptoethanol

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watering redness

pUC 18 DNA Control

. Plasmid No specific data.

Piasmid

Transformation Control 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

Carcinogenicity

Mutagenicity

effects

: Not available.

Potential chronic health effects

Conclusion/Summary

: 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 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

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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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

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.

pShuttle Vector
pShuttle-CMV Vector
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 Suspected of damaging fertility.

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

Plasmid
Transformation Control No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
EJ5183-AD-1 electroporation competent cells			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
XL10-Gold Ultracompetent cells			
Glycerol	Acute LC50 54000 mg/l Fresh water	Fish - Trout - Oncorhynchus mykiss	96 hours
XL10-Gold 2-Mercaptoethanol			
2-Mercaptoethanol	Acute EC50 0.4 mg/l Fresh water	Daphnia	48 hours

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
J5183-AD-1 electroporation competent cells				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-
XL10-Gold Ultracompetent cells				
Glycerol	301D Ready Biodegradability - Closed Bottle Test	93 % - 30 days	-	-

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

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SECTION 12: Ecological information

XL10-Gold				
2-Mercaptoethanol				
2-Mercaptoethanol	OECD 310 Ready Biodegradability - CO2 in Sealed Vessels (Headspace Test)	69 % - Not readily - 60 days	20 mg/l	-

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
XL10-Gold 2-Mercaptoethanol			
2-Mercaptoethanol	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
J5183-AD-1 electroporation competent cells			
Glycerol	-1.76	-	Low
XL10-Gold Ultracompetent cells Glycerol Sucrose	-1.76 -3.7	- -	Low Low
XL10-Gold 2-Mercaptoethanol 2-Mercaptoethanol	-0.056	-	Low

12.4 Mobility in soil

Soil/water partition

: Not available.

coefficient (Koc)

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 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

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

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SECTION 13: Disposal considerations

Methods of disposal

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

Special precautions

: This material and its container must be disposed of in a safe way. 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	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 UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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SECTION 15: Regulatory information

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

Product / Ingredient name	Identifiers	Status
XL10-Gold 2-Mercaptoethanol XL10-Gold 2-Mercaptoethanol		3

Label

: AD-293 Cell Line >1 x 10e6

Not applicable.

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

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

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

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

15.2 Chemical safety

required.

assessment

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

United States : Not determined.

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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

Classification	Justification	
▼L 10-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

XL1	0-	Go	ıa			
2-M	er	ca	pto	eth	and	ol
_		_	_			

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. 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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Notice to reader

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