SAFETY DATA SHEET



XL10-Gold Kan-r Ultracompetent Cells, Part Number 200317

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

1.1 Product identifier

Product name : XL10-Gold Kan-r Ultracompetent Cells, Part Number 200317

CAS number : XL10-Gold Kan (r) Not applicable.

ultracompetent cells

pUC 18 DNA Control Not applicable.

Plasmid

XL10-Gold Not applicable.

2-Mercaptoethanol

Part no. (chemical kit) : 200317

Part no. : XL10-Gold Kan (r) 200317-41

ultracompetent cells

pUC 18 DNA Control 200231-42

Plasmid

XL10-Gold 200314-43

2-Mercaptoethanol

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

Identified uses : Analytical reagent.

XL10-Gold Kan (r) ultracompetent cells 1 ml (10 x 0.1 ml) pUC 18 DNA Control Plasmid 0.01 ml (0.1 ng / µl)

XL10-Gold 2-Mercaptoethanol 0.05 ml

Uses advised against : None known.

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000

e-mail address of person

: 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 : XL10-Gold Kan (r) Mixture

ultracompetent cells

pUC 18 DNA Control Mixture

. Plasmid

XL10-Gold Mixture

2-Mercaptoethanol

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

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SECTION 2: Hazards identification

XL10-Gold

2-Mercaptoethanol

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

XL10-Gold Kan (r) ultracompetent The product is not classified as hazardous according to Regulation (EC)

1272/2008 as amended. cells

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

1272/2008 as amended.

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

amended.

Ingredients of unknown

toxicity

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

ultracompetent cells 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

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

Ingredients of unknown

ecotoxicity

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

: XL10-Gold **Hazard pictograms**

2-Mercaptoethanol

No signal word.

No signal word.





Signal word : XL10-Gold Kan (r)

ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

Danger

Hazard statements XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control

Plasmid

XL10-Gold

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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.

Precautionary statements

Prevention : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control

Plasmid XL10-Gold Not applicable.

Not applicable.

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.

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SECTION 2: Hazards identification

: XL10-Gold Kan (r) Response

ultracompetent cells pUC 18 DNA Control

Plasmid

Not applicable.

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.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

2-mercaptoethanol

Not applicable.

Storage : XL10-Gold Kan (r)

ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold

Not applicable. 2-Mercaptoethanol

Disposal : XL10-Gold Kan (r) Not applicable.

ultracompetent cells pUC 18 DNA Control

Plasmid

XL10-Gold 2-Mercaptoethanol P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

: XL10-Gold **Hazardous ingredients**

2-Mercaptoethanol

: XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control

XL10-Gold

2-Mercaptoethanol

Not applicable. Plasmid Not applicable.

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

Supplemental label

elements

mixtures and articles

XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control Plasmid

XL10-Gold 2-Mercaptoethanol Not applicable.

Not applicable.

Not applicable.

Special packaging requirements

Tactile warning of danger

: XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

Not applicable.

Not applicable.

Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Other hazards which do not result in classification

XL10-Gold Kan (r) ultracompetent cells pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

: XL10-Gold Kan (r) ultracompetent cells pUC 18 DNA Control

Plasmid XL10-Gold 2-Mercaptoethanol This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

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

None known.

None known.

None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances : XL10-Gold Kan (r) ultracompetent

cells

pUC 18 DNA Control Plasmid Mixture XL10-Gold 2-Mercaptoethanol Mixture

Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
XL10-Gold Kan (r) ultracompetent cells					
glycerol	REACH #: Annex V EC: 200-289-5 CAS: 56-81-5	≥10 - ≤25	Not classified.	-	[1]
sucrose	REACH #: Annex IV EC: 200-334-9 CAS: 57-50-1	≤10	Not classified.	-	[1]
XL10-Gold 2-Mercaptoethanol					
2-mercaptoethanol	EC: 200-464-6 CAS: 60-24-2	≤5	Acute Tox. 3, H301 Acute Tox. 2, H310 Acute Tox. 3, H331 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Repr. 2, H361f STOT RE 2, H373 (heart, liver) (oral) Aquatic Acute 1, H400 Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 244 mg/kg ATE [Dermal] = 200 mg/kg ATE [Inhalation (vapours)] = 3 mg/l M [Acute] = 1	[1]

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

Type

XL10-Gold Kan (r) ultracompetent cells

[1] Substance with a workplace exposure limit

XL10-Gold 2-Mercaptoethanol

[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

: XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control Plasmid

XL10-Gold

2-Mercaptoethanol

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.

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SECTION 4: First aid measures

Inhalation

XL10-Gold Kan (r) ultracompetent cells Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

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.

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.

Skin contact

: XL10-Gold Kan (r) ultracompetent cells Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

pUC 18 DNA Control

Plasmid

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

Ingestion

: XL10-Gold Kan (r) 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.

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.

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

Protection of first-aiders

: XL10-Gold Kan (r) ultracompetent cells pUC 18 DNA Control Plasmid

XL10-Gold 2-Mercaptoethanol No action shall be taken involving any personal risk or without suitable training.

tight clothing such as a collar, tie, belt or waistband.

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

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SECTION 4: First aid measures

or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Eye contact: XL10-Gold Kan (r) No known significant effects or critical hazards.

ultracompetent cells
pUC 18 DNA Control
No known significant effects or critical hazards.

Plasmid
XL10-Gold
Causes serious eye damage.

2-Mercaptoethanol
Inhalation : XL10-Gold Kan (r) No known significant effects or critical hazards.

ultracompetent cells pUC 18 DNA Control No known significant effects or critical hazards.

Plasmid
XL10-Gold
No known significant effects or critical hazards.

Skin contact: XL10-Gold Kan (r) No known significant effects or critical hazards.

ultracompetent cells
pUC 18 DNA Control
No known significant effects or critical hazards.

Plasmid
XL10-Gold
May cause an allergic skin reaction.

Ingestion : XL10-Gold Kan (r) No known significant effects or critical hazards.

ultracompetent cells
pUC 18 DNA Control
No known significant effects or critical hazards.

Plasmid
XL10-Gold
No known significant effects or critical hazards.
2-Mercaptoethanol

Over-exposure signs/symptoms

Eye contact: XL10-Gold Kan (r) No specific data.

2-Mercaptoethanol

2-Mercaptoethanol

ultracompetent cells
pUC 18 DNA Control
No specific data.

Plasmid

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

pain watering redness

Inhalation : XL10-Gold Kan (r) No specific data.

ultracompetent cells
pUC 18 DNA Control No specific data.

Plasmid
XL10-Gold
Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths

skeletal malformations

Skin contact: XL10-Gold Kan (r) No specific data.

ultracompetent cells

2-Mercaptoethanol

pUC 18 DNA Control No specific data. Plasmid

XL10-Gold Adverse symptoms may include the following:

redness

2-Mercaptoethanol pain or irritation

blistering may occur reduced foetal weight increase in foetal deaths

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SECTION 4: First aid measures

Ingestion : XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

skeletal malformations

No specific data.

No specific data.

Adverse symptoms may include the following:

stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

: XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold 2-Mercaptoethanol

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.

No specific treatment.

No specific treatment.

No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Specific treatments

Suitable extinguishing media

Unsuitable extinguishing

media

: XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

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.

None known.

None known.

None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : XL10-Gold Kan (r) ultracompetent cells

Plasmid

XL10-Gold

pUC 18 DNA Control

2-Mercaptoethanol

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

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

container may burst.

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

discharged to any waterway, sewer or drain.

Hazardous combustion

products

: XL10-Gold Kan (r) ultracompetent cells Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

pUC 18 DNA Control

Plasmid

: 30/06/2023

No specific data.

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SECTION 5: Firefighting measures

XL10-Gold 2-Mercaptoethanol Decomposition products may include the following materials:

carbon dioxide carbon monoxide sulfur oxides

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special precautions for fire-fighters

: XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control

Plasmid

XL10-Gold

2-Mercaptoethanol

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.

Special protective equipment for firefighters

: XL10-Gold Kan (r) 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: XL10-Gold Kan (r) ultracompetent 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.

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.

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.

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SECTION 6: Accidental release measures

For emergency responders

: XL10-Gold Kan (r) ultracompetent cells If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-

emergency personnel".

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".

XL10-Gold

2-Mercaptoethanol

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

emergency personnel".

6.2 Environmental precautions

: XL10-Gold Kan (r) ultracompetent cells Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution

(sewers, waterways, soil or air).

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).

XL10-Gold

2-Mercaptoethanol

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up

: XL10-Gold Kan (r)

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.

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

XL10-Gold

2-Mercaptoethanol

of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

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

: XL10-Gold Kan (r) ultracompetent cells pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol

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

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SECTION 7: Handling and storage

Advice on general occupational hygiene

: XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control Plasmid

XL10-Gold 2-Mercaptoethanol 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.

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. Eating, drinking and smoking should be prohibited in areas

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

7.2 Conditions for safe storage, including any incompatibilities

Storage

: XL10-Gold Kan (r) ultracompetent cells

pUC 18 DNA Control Plasmid

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. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. 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.

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XL10-Gold Kan-r Ultracompetent Cells, Part Number 200317

SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations: XL10-Gold Kan (r) Industrial applications, Professional applications.

ultracompetent cells
pUC 18 DNA Control Industrial applications, Professional applications.

Plasmid
XL10-Gold Industrial applications, Professional applications.

2-Mercaptoethanol

2-Mercaptoetnanol
Industrial sector specific : XL10-Gold Kan (r)

ultracompetent cells

Not available.

pUC 18 DNA Control Plasmid

Not available.

XL10-Gold 2-Mercaptoethanol

Not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

solutions

Occupational exposure limits

Product/ingredient name	Exposure limit values
XL10-Gold Kan (r) ultracompetent cells	
Glycerol	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 10 mg/m³ 8 hours. Form: mist
Sucrose	NAOSH (Ireland, 5/2021). Notes: Advisory Occupational
	Exposure Limit Values (OELVs)
	OELV-8hr: 10 mg/m³ 8 hours.
	OELV-15min: 20 mg/m³ 15 minutes.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

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

DNELs/DMELs

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

PNECs

No PNECs available

8.2 Exposure controls

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SECTION 8: Exposure controls/personal protection

Appropriate engineering controls

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Individual protection measures

Hygiene measures

: Handle as biohazard material (Biosafety level 1). Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection

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

Other skin protection

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

Respiratory protection

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

Environmental exposure controls

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

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 : XL10-Gold Kan (r) Liquid.

> ultracompetent cells pUC 18 DNA Control

Liquid.

Plasmid XL10-Gold

Liquid.

2-Mercaptoethanol

Colour : XL10-Gold Kan (r) Not available.

> ultracompetent cells pUC 18 DNA Control

Not available.

Plasmid XL10-Gold

Not available.

2-Mercaptoethanol

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SECTION 9: Physical and chemical properties

Odour XL10-Gold Kan (r) Not available.

ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold Not available. Not available.

2-Mercaptoethanol

Odour threshold : XL10-Gold Kan (r) Not available.

ultracompetent cells

pUC 18 DNA Control

Not available.

Plasmid XL10-Gold

Not available.

Melting point/freezing

point

2-Mercaptoethanol XL10-Gold Kan (r) ultracompetent cells

Not available.

pUC 18 DNA Control

0°C

Plasmid XL10-Gold

Not available.

2-Mercaptoethanol

Initial boiling point and boiling range

Flammability

XL10-Gold Kan (r) ultracompetent cells Not available.

pUC 18 DNA Control

100°C

Plasmid

XL10-Gold

Not available.

2-Mercaptoethanol

: XL10-Gold Kan (r)

Not applicable.

ultracompetent cells

pUC 18 DNA Control Not applicable.

Plasmid XL10-Gold

Not applicable.

2-Mercaptoethanol

Upper/lower flammability : XL10-Gold Kan (r) or explosive limits

ultracompetent cells

Not available.

pUC 18 DNA Control

2-Mercaptoethanol

Not available.

Plasmid XL10-Gold

Not available.

Flash point

	C	losed cup	Open cup	
Ingredient name	°C	Method	°C	Method
XL10-Gold Kan (r) ultracompetent cells				
Dimethyl sulfoxide	87	ASTM D 93	87	-
Glycerol	-	-	177	-
XL10-Gold 2-Mercaptoethanol				
2-Mercaptoethanol	74	-	74	-

Auto-ignition temperature

Ingredient name	°C	Method
XL10-Gold Kan (r) ultracompetent cells		
Dimethyl sulfoxide	300 to 302	-
Glycerol	370	-
XL10-Gold 2-Mercaptoethanol		
2-Mercaptoethanol	295	-

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SECTION 9: Physical and chemical properties

Decomposition temperature

pН

XL10-Gold Kan (r) ultracompetent cells

Not available.

pUC 18 DNA Control

Not available.

Plasmid XL10-Gold

Not available.

2-Mercaptoethanol

: XL10-Gold Kan (r) 6.4

ultracompetent cells pUC 18 DNA Control

7.5

. Plasmid 7.0

XL10-Gold

Not available.

2-Mercaptoethanol

: XL10-Gold Kan (r) Not available.

ultracompetent cells

riot available.

pUC 18 DNA Control Plasmid XL10-Gold

Not available.

2-Mercaptoethanol

Not available.

Solubility(ies)

Viscosity

Media Result

XL10-Gold Kan (r) ultracompetent cells

water Soluble

pUC 18 DNA Control Plasmid

water Soluble

XL10-Gold 2-Mercaptoethanol

water Soluble

Partition coefficient: n-octanol/water

: XL10-Gold Kan (r)

Not applicable.

ultracompetent cells pUC 18 DNA Control

Not applicable.

Plasmid XL10-Gold

Not applicable.

2-Mercaptoethanol

Vapour pressure

	Vapour	Vapour Pressure at 20°C			Vapour pressure at 50°		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method	
XL10-Gold Kan (r) ultracompetent cells							
water	17.5	2.3	-	92.258	12.3	-	
Dimethyl sulfoxide	0.42	0.056	EU A.4	-	-	-	
pUC 18 DNA Control Plasmid	47.5	0.0		00.050	40.0		
water	17.5	2.3	-	92.258	12.3	-	
XL10-Gold 2-Mercaptoethanol							
water	17.5	2.3	-	92.258	12.3	-	
2-Mercaptoethanol	0.98	0.13	_	_	-	-	

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SECTION 9: Physical and chemical properties

Evaporation rate XL10-Gold Kan (r) Not available.

ultracompetent cells

pUC 18 DNA Control Plasmid

Not available.

XL10-Gold

Not available.

Relative density : XL10-Gold Kan (r)

ultracompetent cells

2-Mercaptoethanol

Not available.

pUC 18 DNA Control

Not available.

Plasmid XL10-Gold

2-Mercaptoethanol

Not available.

Vapour density : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control Not available.

Plasmid

Not available.

XL10-Gold

2-Mercaptoethanol

Not available.

Explosive properties

XL10-Gold Kan (r) ultracompetent cells Not available.

pUC 18 DNA Control

Not available.

Plasmid XL10-Gold

Not available.

2-Mercaptoethanol

Oxidising properties

: XL10-Gold Kan (r) ultracompetent cells Not available.

pUC 18 DNA Control

Not available.

Plasmid XL10-Gold

Not available.

2-Mercaptoethanol

Particle characteristics

Median particle size XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control Not applicable.

Plasmid

XL10-Gold 2-Mercaptoethanol Not applicable.

Not applicable.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control

product or its ingredients.

Plasmid

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

No specific test data related to reactivity available for this

XL10-Gold 2-Mercaptoethanol No specific test data related to reactivity available for this

product or its ingredients.

10.2 Chemical stability : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control The product is stable.

Plasmid XL10-Gold

The product is stable.

2-Mercaptoethanol

The product is stable.

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SECTION 10: Stability and reactivity

10.3 Possibility of hazardous reactions

XL10-Gold Kan (r) ultracompetent cells pUC 18 DNA Control Under normal conditions of storage and use, hazardous reactions will not occur.

reactions will not occur.

Under normal conditions of storage and use, hazardous

Plasmid reactions will not occur.

XL10-Gold Under normal conditions of storage and use, hazardous

2-Mercaptoethanol reactions will not occur.

10.4 Conditions to avoid : XI

: XL10-Gold Kan (r)
ultracompetent cells

No specific data.

pUC 18 DNA Control

No specific data.

Plasmid

XL10-Gold 2-Mercaptoethanol No specific data.

10.5 Incompatible : XL1

materials

: XL10-Gold Kan (r) ultracompetent cells

May react or be incompatible with oxidising materials.

pUC 18 DNA Control Plasmid

May react or be incompatible with oxidising materials.

XL10-Gold 2-Mercaptoethanol May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products

: XL10-Gold Kan (r) ultracompetent cells pUC 18 DNA Control

pUC 18 DNA Contro Plasmid XL10-Gold 2-Mercaptoethanol 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
XL10-Gold 2-Mercaptoethanol				
2-Mercaptoethanol	LD50 Oral	Rat	244 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
XL10-Gold Kan (r) ultracompetent cells XL10-Gold Kan (r) ultracompetent cells	31250	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
XL10-Gold 2-Mercaptoethanol					
2-Mercaptoethanol	Eyes - Severe irritant	Rabbit	-	2 mg	-

Sensitiser

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary: Not available.

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SECTION 11: Toxicological information

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

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

Not available.

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Not available.

Ingestion

Information on likely routes of exposure

: XL10-Gold Kan (r) ultracompetent cells

Not available.

pUC 18 DNA Control

Plasmid

XL10-Gold 2-Mercaptoethanol Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

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

Potential acute health effects

Inhalation : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control No known significant effects or critical hazards. No known significant effects or critical hazards.

Plasmid

XL10-Gold

No known significant effects or critical hazards.

2-Mercaptoethanol

: XL10-Gold Kan (r)

No known significant effects or critical hazards.

ultracompetent cells

pUC 18 DNA Control

No known significant effects or critical hazards.

Plasmid

XL10-Gold

No known significant effects or critical hazards.

2-Mercaptoethanol

No known significant effects or critical hazards.

Skin contact : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control

Plasmid

No known significant effects or critical hazards.

XL10-Gold

May cause an allergic skin reaction.

Eye contact : XL10-Gold Kan (r)

2-Mercaptoethanol No known significant effects or critical hazards.

ultracompetent cells pUC 18 DNA Control No known significant effects or critical hazards.

Plasmid XL10-Gold

Causes serious eye damage.

2-Mercaptoethanol

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : XL10-Gold Kan (r)

ultracompetent cells pUC 18 DNA Control No specific data.

Plasmid

No specific data.

XL10-Gold

2-Mercaptoethanol

Adverse symptoms may include the following:

reduced foetal weight increase in foetal deaths skeletal malformations

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SECTION 11: Toxicological information

XL10-Gold Kan (r) Ingestion

ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold No specific data.

No specific data.

2-Mercaptoethanol

stomach pains

reduced foetal weight increase in foetal deaths skeletal malformations

Skin contact : XL10-Gold Kan (r)

ultracompetent cells

pUC 18 DNA Control

Plasmid

XL10-Gold 2-Mercaptoethanol No specific data.

No specific data.

Adverse symptoms may include the following:

Adverse symptoms may include the following:

pain or irritation redness

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

No specific data. **Eye contact** : XL10-Gold Kan (r)

ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold 2-Mercaptoethanol No specific data.

Adverse symptoms may include the following:

pain watering redness

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

Short term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

Conclusion/Summary : Not available.

General XL10-Gold Kan (r)

> ultracompetent cells pUC 18 DNA Control

Plasmid

XL10-Gold

No known significant effects or critical hazards.

No known significant effects or critical hazards.

Once sensitized, a severe allergic reaction may occur when

2-Mercaptoethanol subsequently exposed to very low levels.

Carcinogenicity XL10-Gold Kan (r) No known significant effects or critical hazards.

> ultracompetent cells pUC 18 DNA Control

Plasmid

2-Mercaptoethanol

XL10-Gold

No known significant effects or critical hazards.

No known significant effects or critical hazards.

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SECTION 11: Toxicological information

XL10-Gold Kan (r) Mutagenicity

ultracompetent cells

pUC 18 DNA Control

Plasmid XL10-Gold

2-Mercaptoethanol : XL10-Gold Kan (r)

> ultracompetent cells pUC 18 DNA Control

Plasmid XL10-Gold 2-Mercaptoethanol No known significant effects or critical hazards.

Suspected of damaging fertility.

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 Other information

Reproductive toxicity

Not available.

SECTION 12: Ecological information

12.1 Toxicity

Conclusion/Summary : Not available.

12.2 Persistence and degradability

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

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

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

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SECTION 12: Ecological information

12.6 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal

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

Hazardous waste

Packaging

Methods of disposal

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

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

Special precautions

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

SECTION 14: Transport information

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

Additional information

14.6 Special precautions for user

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

14.7 Transport in bulk according to IMO instruments

: Not available.

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SECTION 15: Regulatory information

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

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

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

Label : XL10-Gold Kan (r) Not applicable.

ultracompetent cells

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

Other EU regulations

Industrial emissions : Listed

(integrated pollution prevention and control)

- Air

Ozone depleting substances (1005/2009/EU)

Not listed.

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

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : Not determined.

Eurasian Economic : R

Union

: **Russian Federation inventory**: All components are listed or exempted.

Japan : Japan inventory (CSCL): Not determined.

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

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SECTION 15: Regulatory information

New Zealand : Not determined.
Philippines : Not determined.

Republic of Korea : All components are listed or exempted.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are active or exempted.Viet Nam : All components are listed or exempted.

15.2 Chemical safety

assessment

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

be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

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

1272/2008]

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement

N/A = Not available

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

vPvB = Very Persistent and Very Bioaccumulative

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

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

Full text of abbreviated H statements

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

Full text of classifications [CLP/GHS]

XL10-Gold 2-Mercaptoethanol

Acute Tox. 2
Acute Tox. 3
Aquatic Acute 1
Aquatic Chronic 2
Aquatic Chronic 3
Eye Dam. 1
Repr. 2
Skin Irrit. 2

ACUTE TOXICITY - Category 2 ACUTE TOXICITY - Category 3

SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1

REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 2

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SECTION 16: Other information

Skin Sens. 1
Skin Sens. 1A
STOT RE 2
SKIN SENSITISATION - Category 1
SKIN SENSITISATION - Category 1A
SPECIFIC TARGET ORGAN TOXICIT

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE

- Category 2

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