

SAFETY DATA SHEET



Lambda EMBL3 - BamH I Gigapack III Gold Cloning Kit, Part Number 241612

Section 1. Identification

Product identifier : Lambda EMBL3 - BamH I Gigapack III Gold Cloning Kit, Part Number 241612

Part no. (chemical kit) : 241612

Part no. :

| | |
|--|-----------|
| XL1-Blue MRA E.coli Strain | 200302-81 |
| XL1-Blue MRA (p2) E.coli Strain | 200303-81 |
| Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | 241211-51 |
| pME/Bam HI Test Insert | 210200-53 |
| Gigapack III packaging extract | 200201-41 |
| VCS257 E. coli Strain | 200256-51 |
| Wild-Type Lambda DNA c1857ind 1 Sam7 | 246203-51 |

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

Material uses :

Analytical reagent.

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| <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | 0.5 ml |
| XL1-Blue MRA (p2) E.coli Strain | 0.5 ml |
| Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | 0.01 ml (10 µg 1 µg/µl) |
| pME/Bam HI Test Insert | 0.01 ml (2.5 µg 0.25 µg/µl) |
| Gigapack III packaging extract | 0.275 ml (11 x 0.025 ml) |
| VCS257 E. coli Strain | 1 ml |
| Wild-Type Lambda DNA c1857ind 1 Sam7 | 0.005 ml (1.05 µg 0.21 µg/µl) |

Supplier/Manufacturer : Agilent Technologies Australia Pty Ltd
679 Springvale Road
Mulgrave
Victoria 3170, Australia
1800 802 402

Emergency telephone number (with hours of operation) : CHEMTREC®: +(61)-290372994

Section 2. Hazard(s) identification

Classification of the substance or mixture

Not classified.

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|--|--|
| <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% |
| XL1-Blue MRA (p2) E.coli Strain | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% |
| Gigapack III packaging extract | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% |
| VCS257 E. coli Strain | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 10 - 30% |

GHS label elements

Section 2. Hazard(s) identification

| | | |
|--|--|--|
| Signal word | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | No signal word. No signal word. No signal word. No signal word. No signal word. No signal word. |
| Hazard statements | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | 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. |
| <u>Precautionary statements</u> | | |
| Prevention | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Response | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Storage | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |

Section 2. Hazard(s) identification

| | | |
|--|---|--|
| Disposal | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| | | |
| Supplemental label elements | | |
| Additional warning phrases | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| | | |
| Other hazards which do not result in classification | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | None known. None known. None known. None known. None known. None known. |

Section 3. Composition and ingredient information

| | | |
|--------------------------|---|---|
| Substance/mixture | : XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Mixture Mixture Mixture Mixture Mixture Mixture Mixture |
|--------------------------|---|---|

CAS number/other identifiers

Section 3. Composition and ingredient information

| Ingredient name | % (w/w) | CAS number |
|--|-----------|------------|
| <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain Glycerol | ≥10 - ≤30 | 56-81-5 |
| XL1-Blue MRA (p2) E.coli Strain Glycerol | ≥10 - ≤30 | 56-81-5 |
| Gigapack III packaging extract Sucrose | ≤10 | 57-50-1 |
| VCS257 E. coli Strain Glycerol | ≥10 - ≤30 | 56-81-5 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

| | | |
|--------------------|---|---|
| Eye contact | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | 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. |
| | XL1-Blue MRA (p2) E.coli Strain | 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. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | 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. |
| | pME/Bam HI Test Insert | 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. |
| | Gigapack III packaging extract | 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. |
| | VCS257 E. coli Strain | 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. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs. |
| Inhalation | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | XL1-Blue MRA (p2) E.coli Strain | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | pME/Bam HI Test Insert | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Gigapack III packaging | Remove victim to fresh air and keep at rest in a |

Section 4. First aid measures

| | | |
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| | extract | position comfortable for breathing. Get medical attention if symptoms occur. |
| | VCS257 E. coli Strain | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| Skin contact | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | XL1-Blue MRA (p2) E.coli Strain | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | Gigapack III packaging extract | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | VCS257 E. coli Strain | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. |
| | XL1-Blue MRA (p2) E.coli Strain | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. |
| | pME/Bam HI Test Insert | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. |
| | Gigapack III packaging extract | Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 |

Section 4. First aid measures

VCS257 E. coli Strain

attention if symptoms occur.

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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.

Wild-Type Lambda DNA
c1857ind 1 Sam7

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact

- : XL1-Blue MRA E.coli Strain
XL1-Blue MRA (p2) E.coli Strain
Lambda EMBL3 Vector
Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract
VCS257 E. coli Strain
Wild-Type Lambda DNA
c1857ind 1 Sam7
- 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.

Inhalation

- : XL1-Blue MRA E.coli Strain
XL1-Blue MRA (p2) E.coli Strain
Lambda EMBL3 Vector
Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract
VCS257 E. coli Strain
Wild-Type Lambda DNA
c1857ind 1 Sam7
- 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.

Skin contact

- : XL1-Blue MRA E.coli Strain
XL1-Blue MRA (p2) E.coli Strain
Lambda EMBL3 Vector
Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract
VCS257 E. coli Strain
Wild-Type Lambda DNA
c1857ind 1 Sam7
- 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.

Ingestion

- : XL1-Blue MRA E.coli Strain
XL1-Blue MRA (p2) E.coli Strain
Lambda EMBL3 Vector
Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert
- 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.

Section 4. First aid measures

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| Gigapack III packaging extract | No known significant effects or critical hazards. |
| VCS257 E. coli Strain | No known significant effects or critical hazards. |
| Wild-Type Lambda DNA c1857ind 1 Sam7 | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

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|---------------------|---|---|-------------------|
| Eye contact | : | ☒ L1-Blue MRA E.coli Strain | No specific data. |
| | | XL1-Blue MRA (p2) E.coli Strain | No specific data. |
| | | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | No specific data. |
| | | pME/Bam HI Test Insert | No specific data. |
| Inhalation | : | Gigapack III packaging extract | No specific data. |
| | | VCS257 E. coli Strain | No specific data. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | No specific data. |
| | | ☒ L1-Blue MRA E.coli Strain | No specific data. |
| Skin contact | : | XL1-Blue MRA (p2) E.coli Strain | No specific data. |
| | | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | No specific data. |
| | | pME/Bam HI Test Insert | No specific data. |
| | | Gigapack III packaging extract | No specific data. |
| Ingestion | : | VCS257 E. coli Strain | No specific data. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | No specific data. |
| | | ☒ L1-Blue MRA E.coli Strain | No specific data. |
| | | XL1-Blue MRA (p2) E.coli Strain | No specific data. |
| | | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | No specific data. |
| | | pME/Bam HI Test Insert | No specific data. |
| | | Gigapack III packaging extract | No specific data. |
| | | VCS257 E. coli Strain | No specific data. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | No specific data. |
| | | ☒ L1-Blue MRA E.coli Strain | No specific data. |
| | | XL1-Blue MRA (p2) E.coli Strain | No specific data. |
| | | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | No specific data. |
| | | pME/Bam HI Test Insert | No specific data. |
| | | Gigapack III packaging extract | No specific data. |
| | | VCS257 E. coli Strain | No specific data. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | No specific data. |

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

Section 4. First aid measures

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| Notes to physician | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | XL1-Blue MRA (p2) E.coli Strain | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | 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. |
| | Gigapack III packaging extract | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | VCS257 E. coli Strain | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No specific treatment. |
| | XL1-Blue MRA (p2) E.coli Strain | No specific treatment. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | No specific treatment. |
| | Gigapack III packaging extract | No specific treatment. |
| | VCS257 E. coli Strain | No specific treatment. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | No specific treatment. |
| Protection of first-aiders | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No action shall be taken involving any personal risk or without suitable training. |
| | XL1-Blue MRA (p2) E.coli Strain | No action shall be taken involving any personal risk or without suitable training. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | No action shall be taken involving any personal risk or without suitable training. |
| | Gigapack III packaging extract | No action shall be taken involving any personal risk or without suitable training. |
| | VCS257 E. coli Strain | No action shall be taken involving any personal risk or without suitable training. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | No action shall be taken involving any personal risk or without suitable training. |

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

| | | |
|-------------------------------------|--|---|
| Suitable extinguishing media | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | Use an extinguishing agent suitable for the surrounding fire. |
| | XL1-Blue MRA (p2) E.coli Strain | Use an extinguishing agent suitable for the surrounding fire. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Use an extinguishing agent suitable for the surrounding fire. |
| | Gigapack III packaging extract | Use an extinguishing agent suitable for the surrounding fire. |
| | VCS257 E. coli Strain | Use an extinguishing agent suitable for the surrounding fire. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Use an extinguishing agent suitable for the surrounding fire. |

Section 5. Firefighting measures

| | | |
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| Unsuitable extinguishing media | <p>Gigapack III packaging extract VCS257 E. coli Strain</p> <p>Wild-Type Lambda DNA c1857ind 1 Sam7</p> <p><input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7</p> | <p>surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.</p> <p>None known. None known.</p> <p>None known.</p> <p>None known. None known.</p> <p>None known. None known.</p> |
| Specific hazards arising from the chemical | <p><input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert</p> <p>Gigapack III packaging extract VCS257 E. coli Strain</p> <p>Wild-Type Lambda DNA c1857ind 1 Sam7</p> | <p>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.</p> <p>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.</p> |
| Hazardous thermal decomposition products | <p><input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain</p> <p>Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract</p> <p>VCS257 E. coli Strain</p> <p>Wild-Type Lambda DNA</p> | <p>Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides</p> <p>Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides</p> <p>No specific data.</p> <p>No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide</p> <p>Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides</p> <p>No specific data.</p> |

Section 5. Firefighting measures

c1857ind 1 Sam7

Special protective actions for fire-fighters

| | | |
|---------------------------------------|---|---|
| : <input checked="" type="checkbox"/> | XL1-Blue MRA E.coli Strain | 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. |
| | XL1-Blue MRA (p2) E.coli Strain | 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. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | 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. |
| | pME/Bam HI Test Insert | 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. |
| | Gigapack III packaging extract | 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. |
| | VCS257 E. coli Strain | 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. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | 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

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| : <input checked="" type="checkbox"/> | XL1-Blue MRA E.coli Strain | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | XL1-Blue MRA (p2) E.coli Strain | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | pME/Bam HI Test Insert | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | Gigapack III packaging extract | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | VCS257 E. coli Strain | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

| | | |
|------------------------------------|---|---|
| For non-emergency personnel | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | 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. |
| | XL1-Blue MRA (p2) E.coli Strain | 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. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | 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. |
| | pME/Bam HI Test Insert | 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. |
| | Gigapack III packaging extract | 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. |
| | VCS257 E. coli Strain | 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. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | 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 | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | 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". |
| | XL1-Blue MRA (p2) E.coli Strain | 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". |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated | 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". |
| | pME/Bam HI Test Insert | 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". |
| | Gigapack III packaging extract | 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 |

Section 6. Accidental release measures

VCS257 E. coli Strain

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

Wild-Type Lambda DNA
c1857ind 1 Sam7

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

Environmental precautions : XL1-Blue MRA E.coli Strain

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).

XL1-Blue MRA (p2) E.coli Strain

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).

Lambda EMBL3 Vector
Double Digested With EcoR
I And BamH I CIAP Treated

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).

pME/Bam HI Test Insert

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).

Gigapack III packaging
extract

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).

VCS257 E. coli Strain

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).

Wild-Type Lambda DNA
c1857ind 1 Sam7

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).

Methods and material for containment and cleaning up

Methods for cleaning up : XL1-Blue MRA E.coli Strain

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.

XL1-Blue MRA (p2) E.coli Strain

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.

Lambda EMBL3 Vector
Double Digested With EcoR
I And BamH I CIAP Treated

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

Section 6. Accidental release measures

| | |
|--------------------------------------|--|
| pME/Bam HI Test Insert | inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |
| Gigapack III packaging extract | 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. |
| VCS257 E. coli Strain | 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. |
| Wild-Type Lambda DNA c1857ind 1 Sam7 | Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. |

Section 7. Handling and storage

Precautions for safe handling

Protective measures

| | |
|--|---|
| <ul style="list-style-type: none"> <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | <ul style="list-style-type: none"> 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). |
|--|---|

Advice on general occupational hygiene

| | |
|--|--|
| <ul style="list-style-type: none"> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector | <ul style="list-style-type: none"> 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. 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 |
|--|--|

Section 7. Handling and storage

| | |
|---|--|
| Double Digested With EcoR I And BamH I CIAP Treated | 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. |
| pME/Bam HI Test Insert | 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. |
| Gigapack III packaging extract | 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. |
| VCS257 E. coli Strain | 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. |
| Wild-Type Lambda DNA c1857ind 1 Sam7 | Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures. |

Conditions for safe storage, including any incompatibilities : XL1-Blue MRA E.coli Strain

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.

XL1-Blue MRA (p2) E.coli Strain

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.

Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated

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

Section 7. Handling and storage

| | |
|---|--|
| pME/Bam HI Test Insert | 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. |
| Gigapack III packaging extract | 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. |
| VCS257 E. coli Strain | 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. |
| Wild-Type Lambda DNA c1857ind 1 Sam7 | 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. |

Section 8. Exposure controls and personal protection

[Control parameters](#)

[Occupational exposure limits](#)

Section 8. Exposure controls and personal protection

| Ingredient name | Exposure limits |
|--|---|
| XL1-Blue MRA E.coli Strain Glycerol | Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours. |
| XL1-Blue MRA (p2) E.coli Strain Glycerol | Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours. |
| Gigapack III packaging extract Sucrose | Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours. |
| VCS257 E. coli Strain Glycerol | Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours. |

- Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
- 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.

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. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

Section 9. Physical and chemical properties

Appearance

| | | | |
|-----------------------|------------------------|--|----------------------------|
| Physical state | : | XL1-Blue MRA E.coli Strain | Liquid. |
| | | XL1-Blue MRA (p2) E.coli Strain | Liquid. |
| | | Lambda EMBL3 Vector | Liquid. |
| | | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Liquid. |
| | | Gigapack III packaging extract | Liquid. |
| | | VCS257 E. coli Strain | Liquid. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | Liquid. |
| | Colour | : | XL1-Blue MRA E.coli Strain |
| | | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | | Lambda EMBL3 Vector | Not available. |
| | | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Not available. |
| | | Gigapack III packaging extract | Not available. |
| | | VCS257 E. coli Strain | Not available. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. |
| Odour | | : | XL1-Blue MRA E.coli Strain |
| | | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | | Lambda EMBL3 Vector | Not available. |
| | | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Not available. |
| | | Gigapack III packaging extract | Not available. |
| | | VCS257 E. coli Strain | Not available. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. |
| | Odour threshold | : | XL1-Blue MRA E.coli Strain |
| | | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | | Lambda EMBL3 Vector | Not available. |
| | | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Not available. |
| | | Gigapack III packaging extract | Not available. |
| | | VCS257 E. coli Strain | Not available. |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. |
| pH | | : | XL1-Blue MRA E.coli Strain |
| | | XL1-Blue MRA (p2) E.coli Strain | 7 |
| | | Lambda EMBL3 Vector | 7 |
| | | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | 7.5 |
| | | Gigapack III packaging extract | 8 |
| | | VCS257 E. coli Strain | 7 |
| | | Wild-Type Lambda DNA c1857ind 1 Sam7 | 7 |

Section 9. Physical and chemical properties

| | | |
|----------------------------------|--|-----------------|
| Melting point | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | 0°C (32°F) |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | 0°C (32°F) |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | 0°C (32°F) |
| Boiling point | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | 100°C (212°F) |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | 100°C (212°F) |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | 100°C (212°F) |
| Flash point | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | Not available. |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Not available. |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. |
| Evaporation rate | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | Not available. |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Not available. |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. |
| Flammability (solid, gas) | : XL1-Blue MRA E.coli Strain | Not applicable. |
| | XL1-Blue MRA (p2) E.coli Strain | Not applicable. |
| | Lambda EMBL3 Vector | Not applicable. |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Not applicable. |
| | Gigapack III packaging extract | Not applicable. |
| | VCS257 E. coli Strain | Not applicable. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Not applicable. |

Section 9. Physical and chemical properties

| | | |
|---|---|---|
| Lower and upper explosive (flammable) limits | : XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. Not available. Not available. Not available. Not available. Not available. Not available. |
| Vapour pressure | : XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. Not available. Not available. Not available. Not available. Not available. Not available. |
| Vapour density | : XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. Not available. Not available. Not available. Not available. Not available. Not available. |
| Relative density | : XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. Not available. Not available. Not available. Not available. Not available. Not available. |
| Solubility | : XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA | Soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water and hot water. Easily soluble in the following materials: cold water |

Section 9. Physical and chemical properties

| | | |
|---|---|----------------|
| | c1857ind 1 Sam7 | and hot water. |
| Partition coefficient: n-octanol/water | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | Not available. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | Not available. |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA | Not available. |
| | c1857ind 1 Sam7 | |
| Auto-ignition temperature | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | Not available. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | Not available. |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA | Not available. |
| | c1857ind 1 Sam7 | |
| Decomposition temperature | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | Not available. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | Not available. |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA | Not available. |
| | c1857ind 1 Sam7 | |
| Viscosity | : XL1-Blue MRA E.coli Strain | Not available. |
| | XL1-Blue MRA (p2) E.coli Strain | Not available. |
| | Lambda EMBL3 Vector | Not available. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | Not available. |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Not available. |
| | Wild-Type Lambda DNA | Not available. |
| | c1857ind 1 Sam7 | |

Section 10. Stability and reactivity

| | | |
|-------------------|--|--|
| Reactivity | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No specific test data related to reactivity available for this product or its ingredients. |
| | XL1-Blue MRA (p2) E.coli Strain | No specific test data related to reactivity available for this product or its ingredients. |
| | Lambda EMBL3 Vector | No specific test data related to reactivity available for this product or its ingredients. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | No specific test data related to reactivity available for this product or its ingredients. |
| | Gigapack III packaging | No specific test data related to reactivity available for |

Section 10. Stability and reactivity

| | | |
|---|---|--|
| | extract | this product or its ingredients. |
| | VCS257 E. coli Strain | No specific test data related to reactivity available for this product or its ingredients. |
| | Wild-Type Lambda DNA | No specific test data related to reactivity available for this product or its ingredients. |
| | c1857ind 1 Sam7 | |
| Chemical stability | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain | The product is stable. |
| | XL1-Blue MRA (p2) E.coli Strain | The product is stable. |
| | Lambda EMBL3 Vector | The product is stable. |
| | Double Digested With EcoR | |
| | I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | The product is stable. |
| | Gigapack III packaging | The product is stable. |
| | extract | |
| | VCS257 E. coli Strain | The product is stable. |
| | Wild-Type Lambda DNA | The product is stable. |
| | c1857ind 1 Sam7 | |
| Possibility of hazardous reactions | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | XL1-Blue MRA (p2) E.coli Strain | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Lambda EMBL3 Vector | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Double Digested With EcoR | |
| | I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Gigapack III packaging | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | extract | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | VCS257 E. coli Strain | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Wild-Type Lambda DNA | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | c1857ind 1 Sam7 | |
| Conditions to avoid | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain | No specific data. |
| | XL1-Blue MRA (p2) E.coli Strain | No specific data. |
| | Lambda EMBL3 Vector | No specific data. |
| | Double Digested With EcoR | |
| | I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | No specific data. |
| | Gigapack III packaging | No specific data. |
| | extract | |
| | VCS257 E. coli Strain | No specific data. |
| | Wild-Type Lambda DNA | No specific data. |
| | c1857ind 1 Sam7 | |
| Incompatible materials | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain | May react or be incompatible with oxidising materials. |
| | XL1-Blue MRA (p2) E.coli Strain | May react or be incompatible with oxidising materials. |
| | Lambda EMBL3 Vector | May react or be incompatible with oxidising materials. |
| | Double Digested With EcoR | |
| | I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | May react or be incompatible with oxidising materials. |
| | Gigapack III packaging | May react or be incompatible with oxidising materials. |
| | extract | |
| | VCS257 E. coli Strain | May react or be incompatible with oxidising materials. |
| | Wild-Type Lambda DNA | May react or be incompatible with oxidising materials. |
| | c1857ind 1 Sam7 | |

Section 10. Stability and reactivity

| | | |
|---|--|--|
| Hazardous decomposition products | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | XL1-Blue MRA (p2) E.coli Strain | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Gigapack III packaging extract | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | VCS257 E. coli Strain | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--|-----------|---------|-------------|----------|
| <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| XL1-Blue MRA (p2) E.coli Strain Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Gigapack III packaging extract Sucrose | LD50 Oral | Rat | 29700 mg/kg | - |
| VCS257 E. coli Strain Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|--|----------------------|---------|-------|-------------------------|-------------|
| <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| XL1-Blue MRA (p2) E.coli Strain Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| VCS257 E. coli Strain Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

Section 11. Toxicological information

| | | | | | |
|--|----------------------|--------|---|-------------------------|---|
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
|--|----------------------|--------|---|-------------------------|---|

Sensitisation

Not available.

Mutagenicity

Conclusion/Summary : Not available.

Carcinogenicity

Conclusion/Summary : Not available.

Reproductive toxicity

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

| | | |
|---|---|--|
| Information on likely routes of exposure | XL1-Blue MRA E.coli Strain | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| | XL1-Blue MRA (p2) E.coli Strain | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| | Lambda EMBL3 Vector | Not available. |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | Not available. |
| | Gigapack III packaging extract | Not available. |
| | VCS257 E. coli Strain | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | Not available. |

Potential acute health effects

| | | |
|--------------------|---|---|
| Eye contact | <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No known significant effects or critical hazards. |
| | XL1-Blue MRA (p2) E.coli Strain | No known significant effects or critical hazards. |
| | Lambda EMBL3 Vector | No known significant effects or critical hazards. |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | No known significant effects or critical hazards. |
| | Gigapack III packaging extract | No known significant effects or critical hazards. |
| | VCS257 E. coli Strain | No known significant effects or critical hazards. |
| | Wild-Type Lambda DNA c1857ind 1 Sam7 | No known significant effects or critical hazards. |
| Inhalation | <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No known significant effects or critical hazards. |
| | XL1-Blue MRA (p2) E.coli Strain | No known significant effects or critical hazards. |
| | Lambda EMBL3 Vector | No known significant effects or critical hazards. |
| | Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert | No known significant effects or critical hazards. |
| | Gigapack III packaging extract | No known significant effects or critical hazards. |
| | VCS257 E. coli Strain | No known significant effects or critical hazards. |
| | Wild-Type Lambda DNA | No known significant effects or critical hazards. |

Section 11. Toxicological information

| | | | |
|---------------------|---|--|--|
| | | c1857ind 1 Sam7 | |
| Skin contact | : | <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | 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. |
| Ingestion | : | <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | 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. |

Symptoms related to the physical, chemical and toxicological characteristics

| | | | |
|---------------------|---|--|--|
| Eye contact | : | <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. |
| Inhalation | : | <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. |
| Skin contact | : | <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA | No specific data. No specific data. No specific data. No specific data. No specific data. No specific data. |

Section 11. Toxicological information

| | | |
|------------------|--|-------------------|
| | c1857ind 1 Sam7 | |
| Ingestion | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No specific data. |
| | XL1-Blue MRA (p2) E.coli Strain | No specific data. |
| | Lambda EMBL3 Vector | No specific data. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | No specific data. |
| | Gigapack III packaging extract | No specific data. |
| | VCS257 E. coli Strain | No specific data. |
| | Wild-Type Lambda DNA | No specific data. |
| | c1857ind 1 Sam7 | |

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

| | | |
|------------------------|--|---|
| General | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No known significant effects or critical hazards. |
| | XL1-Blue MRA (p2) E.coli Strain | No known significant effects or critical hazards. |
| | Lambda EMBL3 Vector | No known significant effects or critical hazards. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | No known significant effects or critical hazards. |
| | Gigapack III packaging extract | No known significant effects or critical hazards. |
| | VCS257 E. coli Strain | No known significant effects or critical hazards. |
| | Wild-Type Lambda DNA | No known significant effects or critical hazards. |
| | c1857ind 1 Sam7 | |
| Carcinogenicity | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No known significant effects or critical hazards. |
| | XL1-Blue MRA (p2) E.coli Strain | No known significant effects or critical hazards. |
| | Lambda EMBL3 Vector | No known significant effects or critical hazards. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | No known significant effects or critical hazards. |
| | Gigapack III packaging extract | No known significant effects or critical hazards. |
| | VCS257 E. coli Strain | No known significant effects or critical hazards. |
| | Wild-Type Lambda DNA | No known significant effects or critical hazards. |
| | c1857ind 1 Sam7 | |
| Mutagenicity | : <input checked="" type="checkbox"/> XL1-Blue MRA E.coli Strain | No known significant effects or critical hazards. |
| | XL1-Blue MRA (p2) E.coli Strain | No known significant effects or critical hazards. |
| | Lambda EMBL3 Vector | No known significant effects or critical hazards. |
| | Double Digested With EcoR I And BamH I CIAP Treated | |
| | pME/Bam HI Test Insert | No known significant effects or critical hazards. |
| | Gigapack III packaging extract | No known significant effects or critical hazards. |
| | VCS257 E. coli Strain | No known significant effects or critical hazards. |
| | Wild-Type Lambda DNA | No known significant effects or critical hazards. |
| | c1857ind 1 Sam7 | |

Section 11. Toxicological information

| | | |
|------------------------------|--|--|
| Teratogenicity | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | 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. |
| Developmental effects | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | 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. |
| Fertility effects | : <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain XL1-Blue MRA (p2) E.coli Strain Lambda EMBL3 Vector Double Digested With EcoR I And BamH I CIAP Treated pME/Bam HI Test Insert Gigapack III packaging extract VCS257 E. coli Strain Wild-Type Lambda DNA c1857ind 1 Sam7 | 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. |

Numerical measures of toxicity

Acute toxicity estimates

Not available.

Section 12. Ecological information

Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|-----------------------------------|----------------------------|----------|
| <input checked="" type="checkbox"/> L1-Blue MRA E.coli Strain Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| XL1-Blue MRA (p2) E.coli Strain Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| VCS257 E. coli Strain Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

Persistence and degradability

Section 12. Ecological information

| Product/ingredient name | Test | Result | Dose | Inoculum |
|--|--|----------------|------|----------|
| XL1-Blue MRA E.coli Strain Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| XL1-Blue MRA (p2) E.coli Strain Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |
| VCS257 E. coli Strain Glycerol | 301D Ready Biodegradability - Closed Bottle Test | 93 % - 30 days | - | - |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|--|--------------------|-----|-----------|
| XL1-Blue MRA E.coli Strain Glycerol | -1.76 | - | low |
| XL1-Blue MRA (p2) E.coli Strain Glycerol | -1.76 | - | low |
| Gigapack III packaging extract Sucrose | -3.7 | - | low |
| VCS257 E. coli Strain Glycerol | -1.76 | - | low |

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

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

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

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

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

Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

Section 15. Regulatory information

Standard Uniform Schedule of Medicine and Poisons

6

Model Work Health and Safety Regulations - Scheduled Substances

No listed substance

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

| | |
|--------------------------|--|
| Australia | : Not determined. |
| Canada | : At least one component is not listed in DSL but all such components are listed in NDSL. |
| China | : Not determined. |
| Europe | : All components are listed or exempted. |
| Japan | : Japan inventory (ENCS): Not determined. Japan inventory (ISHL): Not determined. |
| Malaysia | : Not determined. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : Not determined. |
| Republic of Korea | : Not determined. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : <input checked="" type="checkbox"/> Not determined. |
| Turkey | : Not determined. |
| United States | : All components are listed or exempted. |
| Viet Nam | : <input checked="" type="checkbox"/> Not determined. |

Section 16. Any other relevant information

History

Date of issue/Date of revision : 30/04/2018

Date of previous issue : 29/02/2016

Version : 4

Key to abbreviations

: ADG = Australian Dangerous Goods
 ATE = Acute Toxicity Estimate
 BCF = Bioconcentration Factor
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC = Intermediate Bulk Container
 IMDG = International Maritime Dangerous Goods
 LogPow = logarithm of the octanol/water partition coefficient
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
 NOHSC = National Occupational Health and Safety Commission
 SUSMP = Standard Uniform Schedule of Medicine and Poisons
 UN = United Nations

Procedure used to derive the classification

| Classification | Justification |
|-----------------|---------------|
| Not classified. | |

References : Not available.

✔ Indicates information that has changed from previously issued version.

Notice to reader

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