

SAFETY DATA SHEET



Easy-A One-Tube RT-PCR System, Part Number 600182

Section 1. Identification

| | | | |
|--------------------------------|---|-----------|--|
| Product identifier | : Easy-A One-Tube RT-PCR System, Part Number 600182 | | |
| Part No. (Chemical Kit) | : 600182 | | |
| Part No. | : RNase-Free Water | 600164-58 | |
| | RT | 600182-51 | |
| | Easy-A Hi-Fi PCR Cloning Enzyme | 600168-51 | |
| | 10X RT-PCR Buffer | 600168-52 | |
| | 40 mM dNTP Mix (10 mM each dNTP) | 600164-53 | |

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

Analytical reagent.

| | |
|----------------------------------|----------------------|
| RT | 50 µl |
| Easy-A Hi-Fi PCR Cloning Enzyme | 25 µl (125 U 5 U/µl) |
| 10X RT-PCR Buffer | 1 ml |
| 40 mM dNTP Mix (10 mM each dNTP) | 50 µl |
| RNase-Free Water | 1.2 ml |

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.

| | |
|---------------------------------|--|
| RT | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60% |
| Easy-A Hi-Fi PCR Cloning Enzyme | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 30 - 60% |
| 10X RT-PCR Buffer | Percentage of the mixture consisting of ingredient(s) of unknown dermal toxicity: 1 - 10% |
| | Percentage of the mixture consisting of ingredient(s) of unknown inhalation toxicity: 1 - 10% |
| | Percentage of the mixture consisting of ingredient(s) of unknown oral toxicity: 1 - 10% |

GHS label elements

| | | |
|--------------------|----------------------------------|-----------------|
| Signal word | : RNase-Free Water | No signal word. |
| | RT | No signal word. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No signal word. |
| | 10X RT-PCR Buffer | No signal word. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No signal word. |

Section 2. Hazard(s) identification

| | | |
|--|--|---|
| Hazard statements | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | 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. |
| Precautionary statements | | |
| Prevention | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Response | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Storage | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Disposal | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Supplemental label elements | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | Not applicable. Not applicable. Not applicable. Not applicable. Not applicable. |
| Other hazards which do not result in classification | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | None known. None known. None known. None known. None known. |

Section 3. Composition and ingredient information

| | | |
|--------------------------|--|---|
| Substance/mixture | : <input checked="" type="checkbox"/> RNase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | Substance Mixture Mixture Mixture Mixture |
|--------------------------|--|---|

Section 3. Composition and ingredient information

CAS number/other identifiers

| Ingredient name | % (w/w) | CAS number |
|--|-----------|------------|
| RNAse-Free Water Water | 100 | 7732-18-5 |
| RT Glycerol | ≥30 - ≤60 | 56-81-5 |
| Easy-A Hi-Fi PCR Cloning Enzyme Glycerol | ≥30 - ≤60 | 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 | : RNAse-Free Water | 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. |
| | RT | 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. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | 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. |
| | 10X RT-PCR Buffer | 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. |
| | 40 mM dNTP Mix (10 mM each dNTP) | 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 | : RNAse-Free Water | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | RT | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |
| | 10X RT-PCR Buffer | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. |

Section 4. First aid measures

| | | | |
|---------------------|---|----------------------------------|---|
| Skin contact | : | ☑ Nose-Free Water | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | RT | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | 10X RT-PCR Buffer | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. |
| Ingestion | : | ☑ Nose-Free Water | 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. |
| | | RT | 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. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | 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. |
| | | 10X RT-PCR Buffer | 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. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | 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 | : | ☑ Nose-Free Water | No known significant effects or critical hazards. |
| | | RT | No known significant effects or critical hazards. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | No known significant effects or critical hazards. |

Section 4. First aid measures

| | | |
|---------------------|---|---|
| Inhalation | : <input checked="" type="checkbox"/> Nase-Free Water | No known significant effects or critical hazards. |
| | RT | No known significant effects or critical hazards. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| Skin contact | : <input checked="" type="checkbox"/> Nase-Free Water | No known significant effects or critical hazards. |
| | RT | No known significant effects or critical hazards. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| Ingestion | : <input checked="" type="checkbox"/> Nase-Free Water | No known significant effects or critical hazards. |
| | RT | No known significant effects or critical hazards. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No known significant effects or critical hazards. |

Over-exposure signs/symptoms

| | | |
|---------------------|---|-------------------|
| Eye contact | : <input checked="" type="checkbox"/> Nase-Free Water | No specific data. |
| | RT | No specific data. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | 10X RT-PCR Buffer | No specific data. |
| Inhalation | : <input checked="" type="checkbox"/> Nase-Free Water | No specific data. |
| | RT | No specific data. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | 10X RT-PCR Buffer | No specific data. |
| Skin contact | : <input checked="" type="checkbox"/> Nase-Free Water | No specific data. |
| | RT | No specific data. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | 10X RT-PCR Buffer | No specific data. |
| Ingestion | : <input checked="" type="checkbox"/> Nase-Free Water | No specific data. |
| | RT | No specific data. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | 10X RT-PCR Buffer | No specific data. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No specific data. |

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

| | | |
|---------------------------|---|---|
| Notes to physician | : <input checked="" type="checkbox"/> Nase-Free Water | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | RT | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |

Section 4. First aid measures

| | | |
|-----------------------------------|---|---|
| | 10X RT-PCR Buffer | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. |
| Specific treatments | : <input checked="" type="checkbox"/> Nase-Free Water | No specific treatment. |
| | RT | No specific treatment. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No specific treatment. |
| | 10X RT-PCR Buffer | No specific treatment. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No specific treatment. |
| Protection of first-aiders | : <input checked="" type="checkbox"/> Nase-Free Water | No action shall be taken involving any personal risk or without suitable training. |
| | RT | No action shall be taken involving any personal risk or without suitable training. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No action shall be taken involving any personal risk or without suitable training. |
| | 10X RT-PCR Buffer | No action shall be taken involving any personal risk or without suitable training. |
| | 40 mM dNTP Mix (10 mM each dNTP) | 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"/> Nase-Free Water | Use an extinguishing agent suitable for the surrounding fire. |
| | RT | Use an extinguishing agent suitable for the surrounding fire. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Use an extinguishing agent suitable for the surrounding fire. |
| | 10X RT-PCR Buffer | Use an extinguishing agent suitable for the surrounding fire. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Use an extinguishing agent suitable for the surrounding fire. |
| Unsuitable extinguishing media | : <input checked="" type="checkbox"/> Nase-Free Water | None known. |
| | RT | None known. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | None known. |
| | 10X RT-PCR Buffer | None known. |
| | 40 mM dNTP Mix (10 mM each dNTP) | None known. |
| Specific hazards arising from the chemical | : <input checked="" type="checkbox"/> Nase-Free Water | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | RT | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | 10X RT-PCR Buffer | In a fire or if heated, a pressure increase will occur and the container may burst. |
| | 40 mM dNTP Mix (10 mM each dNTP) | In a fire or if heated, a pressure increase will occur and the container may burst. |

Section 5. Firefighting measures

| | | |
|---|----------------------------------|--|
| Hazardous thermal decomposition products | : RNase-Free Water RT | No specific data. Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Decomposition products may include the following materials: carbon dioxide carbon monoxide |
| | 10X RT-PCR Buffer | Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides |
| | 40 mM dNTP Mix (10 mM each dNTP) | No specific data. |
| | | |
| Special protective actions for fire-fighters | : RNase-Free Water RT | 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. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | 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. |
| | 10X RT-PCR Buffer | 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. |
| | 40 mM dNTP Mix (10 mM each dNTP) | 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 | : RNase-Free Water RT | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | 10X RT-PCR Buffer | Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. |
| | 40 mM dNTP Mix (10 mM each dNTP) | 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 | : | ☑ RNase-Free Water | 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. |
| | | RT | 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. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | 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. |
| | | 10X RT-PCR Buffer | 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. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | 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 | : | ☑ RNase-Free Water | 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". |
| | | RT | 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". |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | 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". |
| | | 10X RT-PCR Buffer | 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". |
| | | 40 mM dNTP Mix (10 mM each dNTP) | 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 | : | ☑ RNase-Free Water | 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). |
| | | RT | 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). |

Section 6. Accidental release measures

| | |
|----------------------------------|---|
| Easy-A Hi-Fi PCR Cloning Enzyme | 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). |
| 10X RT-PCR Buffer | 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). |
| 40 mM dNTP Mix (10 mM each dNTP) | 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 : RNase-Free Water

| | |
|----------------------------------|---|
| RT | 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. |
| Easy-A Hi-Fi PCR Cloning Enzyme | 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. |
| 10X RT-PCR Buffer | 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. |
| 40 mM dNTP Mix (10 mM each dNTP) | 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 : RNase-Free Water

| | |
|----------------------------------|---|
| RT | Put on appropriate personal protective equipment (see Section 8). |
| Easy-A Hi-Fi PCR Cloning Enzyme | Put on appropriate personal protective equipment (see Section 8). |
| 10X RT-PCR Buffer | Put on appropriate personal protective equipment (see Section 8). |
| 40 mM dNTP Mix (10 mM each dNTP) | Put on appropriate personal protective equipment (see Section 8). |

Section 7. Handling and storage

Advice on general occupational hygiene

: RNase-Free Water

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.

RT

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.

Easy-A Hi-Fi PCR Cloning Enzyme

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.

10X RT-PCR Buffer

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.

40 mM dNTP Mix (10 mM each dNTP)

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

: RNase-Free Water

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.

RT

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.

Easy-A Hi-Fi PCR Cloning Enzyme

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

10X RT-PCR Buffer

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.

40 mM dNTP Mix (10 mM each dNTP)

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

| Ingredient name | Exposure limits |
|--|---|
| RT Glycerol | Safe Work Australia (Australia, 1/2014). TWA: 10 mg/m ³ 8 hours. |
| Easy-A Hi-Fi PCR Cloning Enzyme 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

: 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.

Section 8. Exposure controls and personal protection

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 | <input checked="" type="checkbox"/> Nase-Free Water | Liquid. |
| | RT | Liquid. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Liquid. |
| | 10X RT-PCR Buffer | Liquid. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Liquid. |
| Colour | <input checked="" type="checkbox"/> Nase-Free Water | Colourless. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| Odour | <input checked="" type="checkbox"/> Nase-Free Water | Odourless. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| Odour threshold | <input checked="" type="checkbox"/> Nase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| pH | <input checked="" type="checkbox"/> Nase-Free Water | 7 |
| | RT | 8 |
| | Easy-A Hi-Fi PCR Cloning Enzyme | 8 |
| | 10X RT-PCR Buffer | 8.3 |
| | 40 mM dNTP Mix (10 mM each dNTP) | 7.5 |
| Melting point | <input checked="" type="checkbox"/> Nase-Free Water | 0°C (32°F) |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | 0°C (32°F) |

Section 9. Physical and chemical properties

| | | |
|---|---|----------------|
| Boiling point | : RNase-Free Water | 100°C (212°F) |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| Flash point | 40 mM dNTP Mix (10 mM each dNTP) | 100°C (212°F) |
| | : RNase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| Evaporation rate | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| | : RNase-Free Water | Not available. |
| | RT | Not available. |
| Flammability (solid, gas) | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| | : Reverse Transcriptase (RT) | Not applicable |
| Lower and upper explosive (flammable) limits | Easy-A High-Fidelity PCR cloning enzyme | Not applicable |
| | 10× RT-PCR buffer | Not applicable |
| | 40mM dNTP Mix | Not applicable |
| | RNase-free Water | Not applicable |
| Vapour pressure | : RNase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| Vapour density | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| | : RNase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| Relative density | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| | : RNase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| | | |

Section 9. Physical and chemical properties

| | | |
|---|---|--|
| Solubility | : <input checked="" type="checkbox"/> Nase-Free Water | Easily soluble in the following materials: cold water and hot water. |
| | RT | Soluble in the following materials: cold water and hot water. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Soluble in the following materials: cold water and hot water. |
| | 10X RT-PCR Buffer | Easily soluble in the following materials: cold water and hot water. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Easily soluble in the following materials: cold water and hot water. |
| Partition coefficient: n-octanol/water | : <input checked="" type="checkbox"/> Nase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| Auto-ignition temperature | : <input checked="" type="checkbox"/> Nase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| Decomposition temperature | : <input checked="" type="checkbox"/> Nase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |
| Viscosity | : <input checked="" type="checkbox"/> Nase-Free Water | Not available. |
| | RT | Not available. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Not available. |
| | 10X RT-PCR Buffer | Not available. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |

Section 10. Stability and reactivity

| | | |
|---------------------------|---|--|
| Reactivity | : <input checked="" type="checkbox"/> Nase-Free Water | No specific test data related to reactivity available for this product or its ingredients. |
| | RT | No specific test data related to reactivity available for this product or its ingredients. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No specific test data related to reactivity available for this product or its ingredients. |
| | 10X RT-PCR Buffer | No specific test data related to reactivity available for this product or its ingredients. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No specific test data related to reactivity available for this product or its ingredients. |
| Chemical stability | : <input checked="" type="checkbox"/> Nase-Free Water | The product is stable. |
| | RT | The product is stable. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | The product is stable. |
| | 10X RT-PCR Buffer | The product is stable. |
| | 40 mM dNTP Mix (10 mM each dNTP) | The product is stable. |

Section 10. Stability and reactivity

| | | |
|--|--|--|
| Possibility of hazardous reactions | : <input checked="" type="checkbox"/> RNase-Free Water | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | RT | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | 10X RT-PCR Buffer | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Under normal conditions of storage and use, hazardous reactions will not occur. |
| | Conditions to avoid | |
| | : <input checked="" type="checkbox"/> RNase-Free Water | No specific data. |
| | RT | No specific data. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | 10X RT-PCR Buffer | No specific data. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No specific data. |
| | Incompatible materials | |
| : <input checked="" type="checkbox"/> RNase-Free Water | May react or be incompatible with oxidising materials. | |
| RT | May react or be incompatible with oxidising materials. | |
| | Easy-A Hi-Fi PCR Cloning Enzyme | May react or be incompatible with oxidising materials. |
| | 10X RT-PCR Buffer | May react or be incompatible with oxidising materials. |
| | 40 mM dNTP Mix (10 mM each dNTP) | May react or be incompatible with oxidising materials. |
| | Hazardous decomposition products | |
| : <input checked="" type="checkbox"/> RNase-Free Water | Under normal conditions of storage and use, hazardous decomposition products should not be produced. | |
| RT | Under normal conditions of storage and use, hazardous decomposition products should not be produced. | |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | 10X RT-PCR Buffer | Under normal conditions of storage and use, hazardous decomposition products should not be produced. |
| | 40 mM dNTP Mix (10 mM each dNTP) | 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"/> RT Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |
| Easy-A Hi-Fi PCR Cloning Enzyme Glycerol | LD50 Oral | Rat | 12600 mg/kg | - |

Irritation/Corrosion

Section 11. Toxicological information

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---|----------------------|---------|-------|-------------------------|-------------|
| RT Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| Easy-A Hi-Fi PCR Cloning Enzyme Glycerol | Eyes - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 24 hours 500 milligrams | - |

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

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 | <input checked="" type="checkbox"/> Nose-Free Water | Not available. |
| | RT | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| | 10X RT-PCR Buffer | Routes of entry anticipated: Oral, Dermal, Inhalation. |
| | 40 mM dNTP Mix (10 mM each dNTP) | Not available. |

Potential acute health effects

| | | |
|--------------------|---|---|
| Eye contact | <input checked="" type="checkbox"/> Nose-Free Water | No known significant effects or critical hazards. |
| | RT | No known significant effects or critical hazards. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No known significant effects or critical hazards. |
| Inhalation | <input checked="" type="checkbox"/> Nose-Free Water | No known significant effects or critical hazards. |
| | RT | No known significant effects or critical hazards. |
| | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| | 40 mM dNTP Mix (10 mM each dNTP) | No known significant effects or critical hazards. |

Section 11. Toxicological information

| | | | |
|---------------------|---|----------------------------------|---|
| Skin contact | : | ☑Nase-Free Water | No known significant effects or critical hazards. |
| | | RT | No known significant effects or critical hazards. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | No known significant effects or critical hazards. |
| Ingestion | : | ☑Nase-Free Water | No known significant effects or critical hazards. |
| | | RT | No known significant effects or critical hazards. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | No known significant effects or critical hazards. |
| | | 10X RT-PCR Buffer | No known significant effects or critical hazards. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | No known significant effects or critical hazards. |

Symptoms related to the physical, chemical and toxicological characteristics

| | | | |
|---------------------|---|----------------------------------|-------------------|
| Eye contact | : | ☑Nase-Free Water | No specific data. |
| | | RT | No specific data. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | | 10X RT-PCR Buffer | No specific data. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | No specific data. |
| Inhalation | : | ☑Nase-Free Water | No specific data. |
| | | RT | No specific data. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | | 10X RT-PCR Buffer | No specific data. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | No specific data. |
| Skin contact | : | ☑Nase-Free Water | No specific data. |
| | | RT | No specific data. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | | 10X RT-PCR Buffer | No specific data. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | No specific data. |
| Ingestion | : | ☑Nase-Free Water | No specific data. |
| | | RT | No specific data. |
| | | Easy-A Hi-Fi PCR Cloning Enzyme | No specific data. |
| | | 10X RT-PCR Buffer | No specific data. |
| | | 40 mM dNTP Mix (10 mM each dNTP) | No specific data. |

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Section 11. Toxicological information

| | | |
|------------------------------|---|---|
| General | : <input checked="" type="checkbox"/> Nase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | 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. |
| Carcinogenicity | : <input checked="" type="checkbox"/> Nase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | 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. |
| Mutagenicity | : <input checked="" type="checkbox"/> Nase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | 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. |
| Teratogenicity | : <input checked="" type="checkbox"/> Nase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | 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"/> Nase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | 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"/> Nase-Free Water RT Easy-A Hi-Fi PCR Cloning Enzyme 10X RT-PCR Buffer 40 mM dNTP Mix (10 mM each dNTP) | 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"/> RT Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |
| Easy-A Hi-Fi PCR Cloning Enzyme Glycerol | Acute LC50 54000 mg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours |

Section 12. Ecological information

Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|---|------|-----------------|------|----------|
| <input checked="" type="checkbox"/> RNase-Free Water Water | - | 100 % - 28 days | - | - |

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---|-------------------|------------|------------------|
| <input checked="" type="checkbox"/> RNase-Free Water Water | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---|--------------------|-----|-----------|
| <input checked="" type="checkbox"/> RNase-Free Water Water | -1.38 | - | low |
| RT Glycerol | -1.76 | - | low |
| Easy-A Hi-Fi PCR Cloning Enzyme 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

Not regulated.

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 | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| China | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| Europe | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| Japan | : <input checked="" type="checkbox"/> Japan inventory (ENCS) : Not determined. <input checked="" type="checkbox"/> Japan inventory (ISHL) : Not determined. |
| Malaysia | : <input checked="" type="checkbox"/> Not determined. |
| New Zealand | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| Philippines | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| Republic of Korea | : <input checked="" type="checkbox"/> Not determined. |
| Taiwan | : <input checked="" type="checkbox"/> All components are listed or exempted. |
| Thailand | : <input checked="" type="checkbox"/> Not determined. |
| Turkey | : <input checked="" type="checkbox"/> Not determined. |
| United States | : <input checked="" type="checkbox"/> 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 : 30/06/2017

Date of previous issue : 02/10/2014.

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

Section 16. Any other relevant information

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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