SAFETY DATA SHEET
Seahorse XFp Glycolytic Rate Assay Kit, Part Number 103346-100

Section 1. Identification

Product identifier : Seahorse XFp Glycolytic Rate Assay Kit, Part Number 103346-100
Part No. (Chemical Kit) : 103346-100
Part No. : 2-deoxyglucose Not available.
Antimycin A/ Rotenone Not available.

Relevant identified uses of the substance or mixture and uses advised against
For research use only. Not for use in diagnostic procedures (RUO).
2-deoxyglucose 6 x 24.624 mg
Antimycin A/ Rotenone 6 x 3.311 mg

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
Antimycin A/ Rotenone
H400 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
H410 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1

GHS label elements
Hazard pictograms : Antimycin A/ Rotenone

Signal word : 2-deoxyglucose No signal word.
Antimycin A/ Rotenone WARNING

Hazard statements : 2-deoxyglucose No known significant effects or critical hazards.
Antimycin A/ Rotenone H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements
Prevention : 2-deoxyglucose Not applicable.
Antimycin A/ Rotenone P273 - Avoid release to the environment.
Response : 2-deoxyglucose Not applicable.
Antimycin A/ Rotenone P391 - Collect spillage.
Storage : 2-deoxyglucose Not applicable.
Antimycin A/ Rotenone Not applicable.
Disposal : 2-deoxyglucose Not applicable.
Antimycin A/ Rotenone P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

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Conforms to Code of Practice for the Preparation of Safety Data Sheets for Hazardous Chemicals
Section 2. Hazard(s) identification

<table>
<thead>
<tr>
<th>Supplemental label elements</th>
<th>2-deoxyglucose</th>
<th>Not applicable.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Antimycin A/ Rotenone</td>
<td>Not applicable.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other hazards which do not result in classification</th>
<th>2-deoxyglucose</th>
<th>None known.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Antimycin A/ Rotenone</td>
<td>None known.</td>
</tr>
</tbody>
</table>

Section 3. Composition and ingredient information

Substance/mixture: 2-deoxyglucose, Antimycin A/ Rotenone

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>% (w/w)</th>
<th>CAS number</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-deoxyglucose</td>
<td>100</td>
<td>154-17-6</td>
</tr>
<tr>
<td>2-deoxy-D-glucose</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>≥90</td>
<td>25322-68-3</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Antimycin A</td>
<td>≤0.1</td>
<td>1397-94-0</td>
</tr>
</tbody>
</table>

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

**Eye contact**

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Description of necessary first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-deoxyglucose</td>
<td>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.</td>
</tr>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.</td>
</tr>
</tbody>
</table>

**Inhalation**

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Description of necessary first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-deoxyglucose</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.</td>
</tr>
</tbody>
</table>

**Skin contact**

<table>
<thead>
<tr>
<th>Substance/mixture</th>
<th>Description of necessary first aid measures</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-deoxyglucose</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.</td>
</tr>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.</td>
</tr>
</tbody>
</table>
Section 4. First aid measures

Ingestion: 2-deoxyglucose
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.

Antimycin A/ Rotenone
Wash out mouth with water. Remove dentures if any. 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact: 2-deoxyglucose
No known significant effects or critical hazards.
Antimycin A/ Rotenone
No known significant effects or critical hazards.

Inhalation: 2-deoxyglucose
No known significant effects or critical hazards.
Antimycin A/ Rotenone
No known significant effects or critical hazards.

Skin contact: 2-deoxyglucose
No known significant effects or critical hazards.
Antimycin A/ Rotenone
No known significant effects or critical hazards.

Ingestion: 2-deoxyglucose
No known significant effects or critical hazards.
Antimycin A/ Rotenone
No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact: 2-deoxyglucose
No specific data.
Antimycin A/ Rotenone
No specific data.

Inhalation: 2-deoxyglucose
No specific data.
Antimycin A/ Rotenone
No specific data.

Skin contact: 2-deoxyglucose
No specific data.
Antimycin A/ Rotenone
No specific data.

Ingestion: 2-deoxyglucose
No specific data.
Antimycin A/ Rotenone
No specific data.

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

Notes to physician: 2-deoxyglucose
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Antimycin A/ Rotenone
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments: 2-deoxyglucose
No specific treatment.
Antimycin A/ Rotenone
No specific treatment.

Protection of first-aiders: 2-deoxyglucose
No action shall be taken involving any personal risk or without suitable training.
Antimycin A/ Rotenone
No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.
Section 4. First aid measures

See toxicological information (Section 11)

Section 5. Firefighting measures

**Extinguishing media**

**Suitable extinguishing media**
- 2-deoxyglucose
  - Use an extinguishing agent suitable for the surrounding fire.
- Antimycin A/ Rotenone
  - Use an extinguishing agent suitable for the surrounding fire.

**Unsuitable extinguishing media**
- 2-deoxyglucose
  - None known.
- Antimycin A/ Rotenone
  - None known.

**Specific hazards arising from the chemical**

- 2-deoxyglucose
  - No specific fire or explosion hazard.
- Antimycin A/ Rotenone
  - This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

**Hazardous thermal decomposition products**

- 2-deoxyglucose
  - Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide
- Antimycin A/ Rotenone
  - Decomposition products may include the following materials:
    - carbon dioxide
    - carbon monoxide
    - halogenated compounds
    - metal oxide/oxides

**Special protective actions for fire-fighters**

- 2-deoxyglucose
  - 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.
- Antimycin A/ Rotenone
  - 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**

- 2-deoxyglucose
  - Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
- Antimycin A/ Rotenone
  - 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**

- 2-deoxyglucose
  - 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.
- Antimycin A/ Rotenone
  - 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. Provide adequate ventilation. Wear appropriate respirator when ventilation is
Section 6. Accidental release measures

For emergency responders: 2-deoxyglucose
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".

Antimycin A/ Rotenone
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: 2-deoxyglucose
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).

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

Methods and material for containment and cleaning up

Methods for cleaning up: 2-deoxyglucose
Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Antimycin A/ Rotenone
Move containers from spill area. Vacuum or sweep up material and place in a designated, labelled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

Precautions for safe handling

Protective measures: 2-deoxyglucose
Put on appropriate personal protective equipment (see Section 8).

Antimycin A/ Rotenone
Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on general occupational hygiene: 2-deoxyglucose
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.

Antimycin A/ Rotenone
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.
Section 7. Handling and storage

Conditions for safe storage, including any incompatibilities

- **2-deoxyglucose**: 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.

- **Antimycin A/ Rotenone**: 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.

Section 8. Exposure controls and personal protection

<table>
<thead>
<tr>
<th>Ingredient name</th>
<th>Exposure limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>TRGS900 AGW (Germany, 6/2016). PEAK: 8000 mg/m³ 15 minutes. Form: Inhalable fraction</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td>TWA: 1000 mg/m³ 8 hours. Form: Inhalable fraction</td>
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Control parameters

**Occupational exposure limits**

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<td>TWA: 1000 mg/m³ 8 hours. Form: Inhalable fraction</td>
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</tbody>
</table>

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.

Skin protection

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

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

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

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

Section 9. Physical and chemical properties

Appearance

Physical state:
- 2-deoxyglucose: Solid.
- Antimycin A/ Rotenone: Solid. [Amorphous.]

Colour:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: White.

Odour:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Odourless.

Odour threshold:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

pH:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Melting point:
- 2-deoxyglucose: 146 to 147°C (294.8 to 296.6°F)
- Antimycin A/ Rotenone: Not available.

Boiling point:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Flash point:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Evaporation rate:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Flammability (solid, gas):
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Lower and upper explosive (flammable) limits:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Vapour pressure:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Vapour density:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Relative density:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Solubility:
- 2-deoxyglucose: Soluble in the following materials: cold water and hot water.
- Antimycin A/ Rotenone: Soluble in the following materials: cold water and hot water.

Partition coefficient: n-octanol/water:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Auto-ignition temperature:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.
Section 9. Physical and chemical properties

Decomposition temperature:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Viscosity:
- 2-deoxyglucose: Not available.
- Antimycin A/ Rotenone: Not available.

Section 10. Stability and reactivity

Reactivity:
- 2-deoxyglucose: No specific test data related to reactivity available for this product or its ingredients.
- Antimycin A/ Rotenone: No specific test data related to reactivity available for this product or its ingredients.

Chemical stability:
- 2-deoxyglucose: The product is stable.
- Antimycin A/ Rotenone: The product is stable.

Possibility of hazardous reactions:
- 2-deoxyglucose: Under normal conditions of storage and use, hazardous reactions will not occur.
- Antimycin A/ Rotenone: Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid:
- 2-deoxyglucose: No specific data.
- Antimycin A/ Rotenone: No specific data.

Incompatible materials:
- 2-deoxyglucose: May react or be incompatible with oxidising materials.
- Antimycin A/ Rotenone: May react or be incompatible with oxidising materials.

Hazardous decomposition products:
- 2-deoxyglucose: Under normal conditions of storage and use, hazardous decomposition products should not be produced.
- Antimycin A/ Rotenone: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Dose</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>LD50 Oral</td>
<td>Rat</td>
<td>28 mg/kg</td>
<td>-</td>
</tr>
<tr>
<td>Antimycin A</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Irritation/Corrosion

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Score</th>
<th>Exposure</th>
<th>Observation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Skin - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td>Polyethylene glycol</td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>24 hours 500 milligrams</td>
<td>-</td>
</tr>
<tr>
<td></td>
<td>Eyes - Mild irritant</td>
<td>Rabbit</td>
<td>-</td>
<td>500 milligrams</td>
<td>-</td>
</tr>
</tbody>
</table>

Sensitisation
Not available.

Mutagenicity
Not available.

Carcinogenicity

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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**
- **Inhalation**: 2-deoxyglucose
  - Antimycin A/ Rotenone
  - Not available.
  - Routes of entry anticipated: Oral, Dermal, Inhalation.
- **Ingestion**: 2-deoxyglucose
  - Antimycin A/ Rotenone
  - Not available.
- **Skin contact**: 2-deoxyglucose
  - Antimycin A/ Rotenone
  - Not available.
- **Eye contact**: 2-deoxyglucose
  - Antimycin A/ Rotenone
  - Not available.

**Potential acute health effects**

<table>
<thead>
<tr>
<th>Route</th>
<th>Compound</th>
<th>Effects</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>2-deoxyglucose</td>
<td>No known significant effects or critical hazards.</td>
</tr>
<tr>
<td></td>
<td>Antimycin A/ Rotenone</td>
<td>No known significant effects or critical hazards.</td>
</tr>
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</tr>
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</table>

**Symptoms related to the physical, chemical and toxicological characteristics**

<table>
<thead>
<tr>
<th>Route</th>
<th>Compound</th>
<th>Symptoms</th>
</tr>
</thead>
<tbody>
<tr>
<td>Eye contact</td>
<td>2-deoxyglucose</td>
<td>No specific data.</td>
</tr>
<tr>
<td></td>
<td>Antimycin A/ Rotenone</td>
<td>No specific data.</td>
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<tr>
<td>Inhalation</td>
<td>2-deoxyglucose</td>
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<tr>
<td></td>
<td>Antimycin A/ Rotenone</td>
<td>No specific data.</td>
</tr>
</tbody>
</table>

**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**: 2-deoxyglucose
  - Antimycin A/ Rotenone
  - No known significant effects or critical hazards.
- **Carcinogenicity**: 2-deoxyglucose
  - Antimycin A/ Rotenone
  - No known significant effects or critical hazards.
Section 11. Toxicological information

### Numerical measures of toxicity

#### Acute toxicity estimates

Not available.

### Section 12. Ecological information

#### Toxicity

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>Result</th>
<th>Species</th>
<th>Exposure</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Antimycin A/ Rotenone</strong> Polyethylene glycol</td>
<td>Acute LC50 &gt;1000000 μg/l Fresh water</td>
<td>Fish - Salmo salar - Parr</td>
<td>96 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 0.024 ppm Marine water</td>
<td>Crustaceans - Penaeus duorarum</td>
<td>48 hours</td>
</tr>
<tr>
<td></td>
<td>Acute EC50 0.02 μg/l Fresh water</td>
<td>Fish - Sander vitreus - Fingerling</td>
<td>96 hours</td>
</tr>
<tr>
<td><strong>Antimycin A</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### Persistence and degradability

Not available.

#### Bioaccumulative potential

<table>
<thead>
<tr>
<th>Product/ingredient name</th>
<th>LogP&lt;sub&gt;ow&lt;/sub&gt;</th>
<th>BCF</th>
<th>Potential</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Antimycin A/ Rotenone</strong> Polyethylene glycol</td>
<td>-</td>
<td>3.2</td>
<td>low</td>
</tr>
</tbody>
</table>

#### Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : 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. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
Section 14. Transport information

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

**Additional information**

**Remarks** : De minimis quantities

**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** : Not determined.
**China** : Not determined.
**Europe** : Not determined.
**Japan** : Japan inventory (ENCS): Not determined.
**Japan inventory (ISHL)**: Not determined.
**Malaysia** : Not determined.
**New Zealand** : Not determined.
**Philippines** : Not determined.
**Republic of Korea** : Not determined.
**Taiwan** : Not determined.
**Thailand** : Not determined.
**Turkey** : Not determined.
**United States** : Not determined.
**Viet Nam** : Not determined.

**Date of issue/Date of revision** : 21/06/2017
**Date of previous issue** : 28/11/2016
**Version** : 2 11/12
Section 16. Any other relevant information

History

Date of issue/Date of revision  : 21/06/2017
Date of previous issue       : 28/11/2016.
Version                      : 2

Key to abbreviations

Indicates information that has changed from previously issued version.

Procedure used to derive the classification

<table>
<thead>
<tr>
<th>Classification</th>
<th>Justification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antimycin A/ Rotenone</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Acute 1, H400</td>
<td>Calculation method</td>
</tr>
<tr>
<td>Aquatic Chronic 1, H410</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

References

Not available.

Notice to reader

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