# SAFETY DATA SHEET



Seahorse XF Glycolytic Rate Assay Kit, Part Number 103344-100

## Section 1. Identification

**Product identifier** : Seahorse XF Glycolytic Rate Assay Kit, Part Number 103344-100

: 103344-100 Part no. (chemical kit)

: **2**-deoxyglucose Part no. Not available.

Antimycin A/ Rotenone Not available.

: For research use only. Not for use in diagnostic procedures (RUO). **Material uses** 

> 2-deoxyglucose 6 x 246.24 mg Antimycin A/ Rotenone 6 x 5.725 mg

Supplier/Manufacturer : Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

**Emergency telephone** number (with hours of operation)

: CHEMTREC®: 1-800-424-9300

## Section 2. Hazard identification

### Classification of the substance or mixture

Antimycin A/ Rotenone

H400 AQUATIC HAZARD (ACUTE) - Category 1 H410 AQUATIC HAZARD (LONG-TERM) - Category 1

**GHS label elements** 

**Hazard pictograms** : Antimycin A/ Rotenone



: 2-deoxyglucose Signal word No signal word.

> Antimycin A/ Rotenone Warning

**Hazard statements** 2-deoxvalucose 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-deoxyalucose Not applicable.

Antimycin A/ Rotenone P391 - Collect spillage.

2-deoxyglucose **Storage** Not applicable. Antimycin A/ Rotenone Not applicable.

: 2-deoxyglucose Not applicable. **Disposal** 

> Antimycin A/ Rotenone P501 - Dispose of contents and container in accordance with all local, regional, national and

> > international regulations.

Supplemental label

elements

Other hazards which do not result in classification

: 2-deoxyglucose Antimycin A/ Rotenone

2-deoxyglucose Antimycin A/ Rotenone

None known. None known. None known.

None known.

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version 1/14

# Section 3. Composition/information on ingredients

Substance/mixture : Z-deoxyglucose Substance
Antimycin A/ Rotenone Mixture

Ingredient name	% (w/w)	CAS number
<b>2-deoxyglucose</b> 2-deoxy-D-glucose	80 - 100	154-17-6
Antimycin A/ Rotenone Sodium chloride Antimycin A (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	1 - 5 0.1 - 1 0.1 - 1	7647-14-5 1397-94-0 83-79-4

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	: <b>2</b> -deoxyglucose	Immediately flush eyes with plenty of water,
		occasionally lifting the upper and lower eyelids.
		Ol I. f I

Check for and remove any contact lenses. Get medical attention if irritation occurs.

Antimycin A/ Rotenone 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.

Inhalation : 2-deoxyglucose Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Antimycin A/ Rotenone 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.

Skin contact : 2-deoxyglucose Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Antimycin A/ Rotenone 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.

Ingestion : Z-deoxyglucose Wash out mouth with water. If material has been

swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical

personnel. Get medical attention if symptoms occur. Wash out mouth with water. Remove dentures if any.

If material has been swallowed and the exposed person is conscious, give small quantities of water to

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 2/14

Antimycin A/ Rotenone

## Section 4. First-aid measures

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

Skin contact

**Skin contact** 

Ingestion

Eye contact : Z-deoxyglucose No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

Inhalation : Z-deoxyglucose No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

: **Z**-deoxyglucose No known significant effects or critical hazards. Antimycin A/ Rotenone No known significant effects or critical hazards.

: **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 : Z-deoxyglucose No specific data.

Antimycin A/ Rotenone No specific data.

Antimycin A/ Rotenone No specific data.

: Z-deoxyglucose No specific data.

Antimycin A/ Rotenone No specific data.

Ingestion : Z-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 : Z-deoxyglucose No specific treatment.

Antimycin A/ Rotenone No specific treatment.

Protection of first-aiders : Z-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.

See toxicological information (Section 11)

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 3/14

# Section 5. Fire-fighting 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

Antimycin A/ Rotenone

None known. None known.

Specific hazards arising

from the chemical

: 2-deoxyglucose

Antimycin A/ Rotenone

No specific fire or explosion hazard.

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:

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 spilled 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 spilled material. Provide adequate ventilation.

Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective

equipment.

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version 4/14

## Section 6. Accidental release measures

For emergency responders : 2-deoxyglucose

oxyglucose If specialized 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". If specialized 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

Environmental precautions : 2-deoxyglucose Avoid dispersal of spilled 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 spilled 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 materials for containment and cleaning up

Methods for cleaning up : Z-deoxyglucose Move containers from spill area. Vacuum or sweep

up material and place in a designated, labeled 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, labeled waste container. Dispose of via a licensed waste disposal

contractor.

# Section 7. Handling and storage

**Precautions for safe handling** 

Protective measures : Z-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.

: **Z**-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.

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.

Advice on general occupational hygiene

Antimycin A/ Rotenone

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 5/14

# Section 7. Handling and storage

Conditions for safe storage, : 2-deoxyglucose including any incompatibilities

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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. Storage temperature: room temperature. 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Ingredient name	Exposure limits
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 5 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 1/2021). TWA: 5 mg/m³ 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 5 mg/m³ 8 hours. CA Quebec Provincial (Canada, 7/2019). TWAEV: 5 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 10 mg/m³ 15 minutes. TWA: 5 mg/m³ 8 hours.

## **Appropriate engineering** controls

**Environmental exposure** controls

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

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version: 4

# Section 8. Exposure controls/personal protection

### **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**

**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 and safety characteristics

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

## **Appearance**

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

Not available. Color : 2-deoxyglucose

> Antimycin A/ Rotenone White.

Odor 2-deoxyglucose Not available.

> Antimycin A/ Rotenone Odorless.

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

> 2-deoxvalucose Not available.

pH Antimycin A/ Rotenone Not available.

Melting point/freezing point : **2**-deoxyglucose 146 to 147°C (294.8 to 296.6°F)

Antimycin A/ Rotenone Not available. **Boiling point, initial boiling** : 2-deoxyglucose Not available. point, and boiling range Antimycin A/ Rotenone Not available.

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

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

Date of issue/Date of revision : 04/21/2022 : 05/24/2018 Version Date of previous issue

# Section 9. Physical and chemical properties and safety characteristics

Lower and upper explosion

limit/flammability limit

Relative vapor density

Vapor pressure

**Relative density** 

**Flammability** 

: 2-deoxyglucose

2-deoxyglucose

Solubility : 2-deoxyglucose

Partition coefficient: noctanol/water

**Auto-ignition temperature** 

**Decomposition temperature** 

**Viscosity** 

**Particle characteristics** 

Median particle size

: **2**-deoxyglucose

Antimycin A/ Rotenone

Antimycin A/ Rotenone

: 2-deoxyglucose Antimycin A/ Rotenone

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

Antimycin A/ Rotenone

Antimycin A/ Rotenone

2-deoxyglucose Antimycin A/ Rotenone

: 2-deoxyglucose Antimycin A/ Rotenone 2-deoxyglucose

: 2-deoxyglucose Antimycin A/ Rotenone

Antimycin A/ Rotenone

: 2-deoxyalucose Antimycin A/ Rotenone

Not available. Not available.

Not available.

Not available.

Not applicable.

Not applicable.

Not available.

Not available.

Not applicable.

Not applicable.

Not available.

Not available.

Not available.

Not applicable.

Not applicable.

Not applicable.

Not applicable.

Not available.

Not available.

Not applicable.

Not applicable.

water.

# 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

Soluble in the following materials: cold water and hot

this product or its ingredients.

**Chemical stability** 

**2**-deoxyglucose Antimycin A/ Rotenone The product is stable. 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 Antimycin A/ Rotenone No specific data. No specific data.

**Incompatible materials** 

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

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version: 4 8/14

# **Section 11. Toxicological information**

## Information on toxicological effects

## **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
Antimycin A/ Rotenone Sodium chloride Antimycin A (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno	LD50 Oral LD50 Oral LD50 Oral	Rat Rat Rat	3000 mg/kg 28 mg/kg 25 mg/kg	- - -
[3,4-b]furo[2,3-h]chromen- 6-one				

## **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimycin A/ Rotenone					
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 mg	-
	Eyes - Moderate irritant	Rabbit	-	10 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
(2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl-	Eyes - Mild irritant	Rabbit	-	mg 1 %	-
8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen-6-one					

## **Sensitization**

Not available.

## **Mutagenicity**

**Conclusion/Summary** 

**Carcinogenicity** 

**Conclusion/Summary** 

: Not available.: Not available.

**Classification** 

Product/ingredient name	IARC	NTP	ACGIH
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	-	-	A4

## **Reproductive toxicity**

**Conclusion/Summary**: Not available.

**Teratogenicity** 

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one	Category 3		Respiratory tract irritation
	Category 3		Narcotic effects

## Specific target organ toxicity (repeated exposure)

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 9/14

# **Section 11. Toxicological information**

Not available.

### **Aspiration hazard**

Not available.

Information on the likely

routes of exposure

Ingestion

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

Potential acute health effects

Eye contact : 2-deoxyglucose

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 : Z-deoxyglucose No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

: **Z**-deoxyglucose No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

**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.

Zdeoxyglucose No specific data.

Antimycin A/ Rotenone No specific data.

Ingestion : Z-deoxyglucose No specific data.

Antimycin A/ Rotenone No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate

effects

Skin contact

: 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 No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

Mutagenicity : 2-deoxyglucose No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

Antimycin A/ Rotenone No known significant effects or critical hazards.

**Numerical measures of toxicity** 

**Acute toxicity estimates** 

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 10/14

# Section 11. Toxicological information

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
Antimycin A/ Rotenone					
Antimycin A/ Rotenone	110285.4	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A
Antimycin A	28	N/A	N/A	N/A	N/A
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-	25	N/A	N/A	N/A	N/A
2-isopropenyl-8,9-dimethoxychromeno[3,4-b]furo [2,3-h]chromen-6-one					

# Section 12. Ecological information

## **Toxicity**

Product/ingredient name	Result	Species	Exposure
Antimycin A/ Rotenone			
Sodium chloride	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	48 hours
	Acute EC50 402.6 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.87 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Acute LC50 1000000 µg/l Fresh water	Fish - Morone saxatilis - Larvae	96 hours
	Chronic LC10 781 mg/l Fresh water	Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling)	3 weeks
	Chronic NOEC 6 g/L Fresh water	Aquatic plants - Lemna minor	96 hours
	Chronic NOEC 0.314 g/L Fresh water	Daphnia - Daphnia pulex	21 days
	Chronic NOEC 100 mg/l Fresh water	Fish - Gambusia holbrooki - Adult	8 weeks
Antimycin A	Acute EC50 0.024 ppm Marine water	Crustaceans - Penaeus duorarum	48 hours
	Acute LC50 0.000019 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
(2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	Acute EC50 190 μg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
0 0110	Acute EC50 3.7 μg/l Fresh water Acute LC50 1.9 ppb Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours
	Chronic NOEC 0.3 ppb Fresh water Chronic NOEC 1.01 ppb	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	21 days 32 days

## Persistence and degradability

Not available.

**Bioaccumulative potential** 

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 11/14

Seahorse XF Glycolytic Rate Assay Kit, Part Number 103344-100

# Section 12. Ecological information

Product/ingredient name	LogPow	BCF	Potential
Antimycin A/ Rotenone (2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro- 2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen- 6-one	4.1	25.7	low

**Mobility in soil** 

Soil/water partition coefficient (Koc)

: 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 minimized 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 nonrecyclable 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

TDG / IMDG / IATA : Not regulated.

**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 : Not available.

to IMO instruments

## Section 15. Regulatory information

**Canadian lists** 

**Canadian NPRI** : None of the components are listed. **CEPA Toxic substances** : None of the components are listed.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

Date of issue/Date of revision : 04/21/2022 : 05/24/2018 Version: 4 12/14 Date of previous issue

# Section 15. Regulatory information

### 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 (CSCL): Not determined.

Japan inventory (ISHL): 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.

## Section 16. Other information

**History** 

Date of issue/Date of

revision

: 04/21/2022

Date of previous issue : 05/24/2018

Version : 4

**Key to abbreviations** : ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations 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)

N/A = Not available UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Antimycin A/ Rotenone	
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

**References** : Not available.

▼ Indicates information that has changed from previously issued version.

**Notice to reader** 

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 13/14

Seahorse XF Glycolytic Rate Assay Kit, Part Number 103344-100

## Section 16. Other information

Disclaimer: The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Date of issue/Date of revision : 04/21/2022 Date of previous issue : 05/24/2018 Version : 4 14/14