Conforms to US OSHA Hazard Communication 29CFR1910.1200

SAFETY DATA SHEET



Agilent Seahorse XFp Real-Time ATP Rate Assay Kit, Part Number 103591-100

Section 1. Identification

1.1 Product identifier		
Product name	: Agilent Seahorse XFp Re	eal-Time ATP Rate Assay Kit, Part Number 103591-100
Part no. (chemical kit)	: 103591-100	
Part no.	: Oligomycin Antimycin A/ Rotenone	Not available. Not available.
Validation date	: 7/30/2021	
1.2 Relevant identified use	es of the substance or mixture	and uses advised against
Material uses	: For research use only. No	ot for use in diagnostic procedures (RUO).
	Øigomycin Antimycin A/ Rotenone	3 x 1.144 mg 3 x 1.145 mg
1.3 Details of the supplier	of the safety data sheet	
Supplier/Manufacturer	: Agilent Technologies, Inc 5301 Stevens Creek Blvo Santa Clara, CA 95051, 800-227-9770	d
1.4 Emergency telephone	number	
In case of emergency	: CHEMTREC®: 1-800-42	4-9300
Section 2. Hazar	ds identification	
2.1 Classification of the su	ubstance or mixture	
OSHA/HCS status		While this material is not considered hazardous by the

While this material is not considered hazardous by the : Øligomycin **OSHA/HCS** status **OSHA Hazard Communication Standard (29 CFR** 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product. This material is considered hazardous by the OSHA Antimycin A/ Rotenone Hazard Communication Standard (29 CFR 1910.1200). **Classification of the substance or mixture** Antimycin A/ Rotenone H400 AQUATIC HAZARD (ACUTE) - Category 1 H410 AQUATIC HAZARD (LONG-TERM) - Category 1 **2.2 GHS label elements Hazard pictograms** : Antimycin A/ Rotenone Signal word : Øligomycin No signal word. Antimycin A/ Rotenone Warning **Hazard statements** : Øligomycin No known significant effects or critical hazards. Antimycin A/ Rotenone H410 - Very toxic to aquatic life with long lasting effects. **Precautionary statements**

Section 2. Hazards identification

Prevention	: Øligomycin Antimycin A/ Rotenone	Not applicable. P273 - Avoid release to the environment.
Response	: Øligomycin Antimycin A/ Rotenone	Not applicable. P391 - Collect spillage.
Storage	: Oligomycin Antimycin A/ Rotenone	Not applicable. Not applicable.
Disposal	: Øligomycin Antimycin A/ Rotenone	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.
Supplemental label elements	: Oligomycin Antimycin A/ Rotenone	None known. None known.
2.3 Other hazards		
Hazards not otherwise classified	: Oligomycin Antimycin A/ Rotenone	None known. None known.

Section 3. Composition/information on ingredients

Substance/mixture	: Oligomycin Antimycin A/ Rotenone	Mixture Mixture

Ingredient name	%	CAS number
Øligomycin		
Sodium chloride	≤3	7647-14-5
Antimycin A/ Rotenone		
Sodium chloride	≤3	7647-14-5
Antimycin A	≤0.3	1397-94-0
(2R,6aS,12aS)-1,2,6,6a,12,12a-hexahydro-2-isopropenyl-	≤0.3	83-79-4
8,9-dimethoxychromeno[3,4-b]furo[2,3-h]chromen-6-one		

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

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

4.1 Description of neo	<u>cessary first aid measures</u>	
Eye contact	: Øligomycin	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.
	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	: Øligomycin	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

Section 4. First aid measures

		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	: Øligomycin	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	: 🕅igomycin	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.
	ptoms/effects, acute and delayed	
Potential acute health	<u>effects</u>	
Eye contact	: Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/s	symptoms	
Eye contact	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.
Inhalation	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.
Skin contact	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.
Ingestion	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.

Section 4. First aid measures

4.3 Indication of immediate	medical attention and special tre	atment needed, if necessary
Notes to physician	: Oligomycin	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	: Oligomycin Antimycin A/ Rotenone	No specific treatment. No specific treatment.
Protection of first-aiders	: Øligomycin Antimycin A/ Rotenone	No action shall be taken involving any personal risk or without suitable training. No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

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5.1 Extinguishing media		
Suitable extinguishing media	: Oligomycin	Use an extinguishing agent suitable for the surrounding fire.
	Antimycin A/ Rotenone	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing	: Oligomycin	None known.
media	Antimycin A/ Rotenone	None known.
5.2 Special hazards arising	from the substance or mixture	
Specific hazards arising from the chemical	: Øligomycin 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	: Oligomycin	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
	Antimycin A/ Rotenone	Decomposition products may include the following materials: halogenated compounds metal oxide/oxides
5.3 Advice for firefighters		
Special protective actions for fire-fighters	: Oligomycin	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.

Section 5. Fire-fighting measures

Special protective equipment for fire-fighters

: Oligomycin

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. 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

	otective equipment and emergen	
For non-emergency personnel	: Øligomycin 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. Put on appropriate personal protective equipment. 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.
For emergency responders		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	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"
6.2 Environmental precautions	: Øligomycin	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.
6.3 Methods and materials fe	or containment and cleaning up	
Methods for cleaning up	: Oligomycin	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

7.1 Precautions for safe har	ndling	
Protective measures	: Øligomycin	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	: Oligomycin	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.
7.2 Conditions for safe storage, including any incompatibilities	: Oligomycin	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.
	Antimycin A/ Rotenone	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.
7.3 Specific end use(s) Recommendations	: Oligomycin Antimycin A/ Rotenone	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Øligomycin Antimycin A/ Rotenone	Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
Ingredient name	Exposure limits None. None. ACGIH TLV (United States, 3/2020). TWA: 5 mg/m³ 8 hours. OSHA PEL 1989 (United States, 3/1989). TWA: 5 mg/m³ 8 hours. NIOSH REL (United States, 10/2016).
	TWA: 5 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 5 mg/m ³ 8 hours.

8.2 Exposure controls		
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 measure	<u>es</u>	
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

9.1 Information on basic physical and chemical properties

Appearance

Physical state	Oligomycin Solid. Antimycin A/ Rotenone Solid.	
Color	Oligomycin White. Antimycin A/ Rotenone White.	
Odor	Oligomycin Odorless. Antimycin A/ Rotenone Odorless.	
Odor threshold	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
рН	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Melting point	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Boiling point	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Flash point	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Evaporation rate	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Flammability (solid, gas)	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Lower and upper explosive (flammable) limits	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Vapor pressure	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Vapor density	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Relative density	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Solubility	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Partition coefficient: n- octanol/water	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Auto-ignition temperature	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Decomposition temperature	Oligomycin Not available. Antimycin A/ Rotenone Not available.	
Viscosity	Oligomycin Not available. Antimycin A/ Rotenone Not available.	

Section 10. Stability and reactivity

10.1 Reactivity	: Oligomycin Antimycin A/ Rotenone	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Oligomycin Antimycin A/ Rotenone	The product is stable. The product is stable.

Section 10. Stability and reactivity

10.3 Possibility of hazardous reactions	: Oligomycin	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.
10.4 Conditions to avoid	: Oligomycin	No specific data.
	Antimycin A/ Rotenone	No specific data.
10.5 Incompatible materials	: Oligomycin	May react or be incompatible with oxidizing materials.
	Antimycin A/ Rotenone	May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: Oligomycin	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

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Øligomycin Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-
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	LD50 Oral LD50 Oral LD50 Oral	Rat Rat Rat	3000 mg/kg 28 mg/kg 25 mg/kg	- -

Irritation/Corrosion

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

Section 11. Toxicological information

6-one	

Sensitization

Not available.

Mutagenicity			
Conclusion/Summary	: Not available.		
Carcinogenicity			
Conclusion/Summary	: Not available.		
Reproductive toxicity			
Conclusion/Summary	: Not available.		
Teratogenicity			
Conclusion/Summary	: Not available.		
Specific target organ toxicity (single exposure)			

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
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	;	Oligomycin Antimycin A/ Rotenone	Not available. Not available.
Potential acute health effects			
Eye contact	;	Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	1	Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	1	Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	1	Oligomycin Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.
Inhalation	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.
Skin contact	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.
Ingestion	: Oligomycin Antimycin A/ Rotenone	No specific data. No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure Short term exposure Potential immediate : Not available. effects

Date of issue :	07/30/2021
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Section 11. Toxicological information

Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health eff	ects
General	: Oligomycin Antimycin A/ Rotenone
Carcinogenicity	: Oligomycin Antimycin A/ Rotenone
Mutagenicity	: Oligomycin Antimycin A/ Rotenone
Reproductive toxicity	: Øligomycin Antimycin A/ Rotenone

No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
Øligomycin					
Oligomycin	110784	N/A	N/A	N/A	N/A
Sodium chloride	3000	N/A	N/A	N/A	N/A
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

Product/ingredient name	Result	Species	Exposure
Øligomycin			
Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours
	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	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/ Rotenone			
Sodium chloride	Acute EC50 4.74 g/L Fresh water	Algae - Chlamydomonas reinhardtii	96 hours

Section 12. Ecological information

	Acute EC50 519.6 mg/l Fresh water	Crustaceans - Cypris subglobosa	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	
Antimycin A	Acute EC50 0.024 ppm Marine water	Crustaceans - Penaeus duorarum	
	Acute LC50 0.000019 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
(2R,6aS,12aS)-1,2,6,6a, 12,12a-hexahydro-	Acute EC50 190 μg/l Fresh water	Crustaceans - Simocephalus serrulatus - Larvae	48 hours
2-isopropenyl- 8,9-dimethoxychromeno [3,4-b]furo[2,3-h]chromen-			
6-one			
	Acute EC50 3.7 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1.9 ppb Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 1.25 µg/l Fresh water	Daphnia - Daphnia magna	21 days

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

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

12.4 Mobility in soil

Soil/water partition : coefficient (Koc)

: Not available.

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

Section 13. Disposal considerations

13.1 Waste treatment methods

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

Agilent Seahorse XFp Real-Time ATP Rate Assay Kit, Part Number 103591-100

Section 13. Disposal considerations

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

DOT / TDG / Mexico / IMDG / : Not regulated. ΙΑΤΑ **Additional information** Special provisions: De minimis guantities

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

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Federal regulations	: TSCA 8(a) CDR Exempt/Partial exemption: Not determined Clean Water Act (CWA) 311: Nitric acid, iron(3+) salt, nonahydrate	
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	: Not listed	
Clean Air Act Section 602 Class I Substances	: Not listed	
Clean Air Act Section 602 Class II Substances	: Not listed	

DEA List I Chemicals : Not listed (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals)

SARA 302/304

Composition/information on ingredients

			SARA 30	2 TPQ	SARA 30)4 RQ
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Antimycin A/ Rotenone Antimycin A	≤0.3	Yes.	1000 / 10000	-	1000	-
SARA 304 RQ : 772	200.8 lbs / 350579.2 k	(0		L		

SARA 311/312

Section 15. Regulatory information

Classification

: Oligomycin Antimycin A/ Rotenone Not applicable. Not applicable.

Composition/information on ingredients

<u>composition/mormation on ingredients</u>			
Name	%	Classification	
Oligomycin Sodium chloride	≤3	EYE IRRITATION - Category 2A	
Antimycin A/ Rotenone Sodium chloride	≤3	EYE IRRITATION - Category 2A	

State regulations

Massachusetts	: None of the components are listed.
New York	: None of the components are listed.
New Jersey	: None of the components are listed.
Pennsylvania	: None of the components are listed.
California Prop. 65	

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

Inventory list

Australia	: Not determined.
Canada	: Not determined.
China	: Not determined.
Europe	: Not determined.
Japan	: Japan inventory (ENCS): 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

<u>History</u>	
Date of issue	: 07/30/2021
Date of previous issue	: 02/06/2018
Version	: 2
Key to abbreviations	 ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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

✓ Indicates information that has changed from previously issued version.

Notice to reader

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