

SAFETY DATA SHEET



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

Section 1. Identification

1.1 Product identifier

Product name : 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.
Validation date : 6/21/2017

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

Material uses : 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

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer : Agilent Technologies, Inc.
 5301 Stevens Creek Blvd
 Santa Clara, CA 95051, USA
 800-227-9770

1.4 Emergency telephone number

In case of emergency : CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : 2-deoxyglucose While this material is not considered hazardous by the 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.
 Antimycin A/ Rotenone This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture

Antimycin A/ Rotenone
 H319 EYE IRRITATION - Category 2A

Ingredients of unknown toxicity : Antimycin A/ Rotenone Percentage of the mixture consisting of ingredient (s) of unknown inhalation toxicity: > 60%

2.2 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 H319 - Causes serious eye irritation.

Section 2. Hazards identification

Precautionary statements

Prevention	: 2-deoxyglucose Antimycin A/ Rotenone	Not applicable. P280 - Wear eye or face protection. P264 - Wash hands thoroughly after handling.
Response	: 2-deoxyglucose Antimycin A/ Rotenone	Not applicable. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical attention.
Storage	: 2-deoxyglucose Antimycin A/ Rotenone	Not applicable. Not applicable.
Disposal	: 2-deoxyglucose Antimycin A/ Rotenone	Not applicable. Not applicable.
Supplemental label elements	: 2-deoxyglucose Antimycin A/ Rotenone	None known. None known.

2.3 Other hazards

Hazards not otherwise classified	: 2-deoxyglucose Antimycin A/ Rotenone	None known. None known.
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Section 3. Composition/information on ingredients

Substance/mixture	: 2-deoxyglucose Antimycin A/ Rotenone	Substance Mixture
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Ingredient name	%	CAS number
2-deoxyglucose 2-deoxy-D-glucose	100	154-17-6
Antimycin A/ Rotenone Polyethylene glycol Sodium chloride	≥90 ≤10	25322-68-3 7647-14-5

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 necessary first aid measures

Eye contact	: 2-deoxyglucose	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.

Section 4. First aid measures

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	: 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

Eye contact	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. Causes serious eye irritation.
Inhalation	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.

Section 4. First aid measures

Over-exposure signs/symptoms

Eye contact	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. No specific data.
Skin contact	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. No specific data.
Ingestion	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. No specific data.

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

Notes to physician	: 2-deoxyglucose Antimycin A/ Rotenone	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: 2-deoxyglucose Antimycin A/ Rotenone	No specific treatment. No specific treatment.
Protection of first-aiders	: 2-deoxyglucose 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)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	: 2-deoxyglucose Antimycin A/ Rotenone	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: 2-deoxyglucose Antimycin A/ Rotenone	None known. None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical	: 2-deoxyglucose Antimycin A/ Rotenone	No specific fire or explosion hazard. No specific fire or explosion hazard.
Hazardous thermal decomposition products	: 2-deoxyglucose Antimycin A/ Rotenone	Decomposition products may include the following materials: carbon dioxide carbon monoxide Decomposition products may include the following materials: carbon dioxide carbon monoxide halogenated compounds metal oxide/oxides

Section 5. Fire-fighting measures

5.3 Advice for firefighters

Special protective actions for fire-fighters	: 2-deoxyglucose 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. 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 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

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	: 2-deoxyglucose 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	: 2-deoxyglucose 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". 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	: 2-deoxyglucose 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). 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).

6.3 Methods and materials for containment and cleaning up

Section 6. Accidental release measures

Methods for cleaning up	: 2-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. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Section 7. Handling and storage

7.1 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. 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.

7.2 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 unlabeled 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 unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 7. Handling and storage

7.3 Specific end use(s)

Recommendations	: 2-deoxyglucose Antimycin A/ Rotenone	Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: 2-deoxyglucose Antimycin A/ Rotenone	Not applicable. Not applicable.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
2-deoxyglucose 2-deoxy-D-glucose	None.
Antimycin A/ Rotenone Polyethylene glycol	AIHA WEEL (United States, 10/2011). TWA: 10 mg/m ³ 8 hours. Form: Aerosol
Sodium chloride	None.

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 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: chemical splash goggles.

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.

Section 8. Exposure controls/personal protection

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	: 2-deoxyglucose Antimycin A/ Rotenone	Solid. Solid. [Amorphous.]
Color	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. White.
Odor	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Odorless.
Odor threshold	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
pH	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Melting point	: 2-deoxyglucose Antimycin A/ Rotenone	146 to 147°C (294.8 to 296.6°F) Not available.
Boiling point	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Flash point	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Evaporation rate	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Flammability (solid, gas)	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Lower and upper explosive (flammable) limits	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Vapor pressure	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Vapor density	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Relative density	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Solubility	: 2-deoxyglucose Antimycin A/ Rotenone	Soluble in the following materials: cold water and hot water. Soluble in the following materials: cold water and hot water.
Partition coefficient: n-octanol/water	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Auto-ignition temperature	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Decomposition temperature	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.
Viscosity	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Not available.

Section 10. Stability and reactivity

10.1 Reactivity	: 2-deoxyglucose 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	: 2-deoxyglucose Antimycin A/ Rotenone	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: 2-deoxyglucose Antimycin A/ Rotenone	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. No specific data.
10.5 Incompatible materials	: 2-deoxyglucose Antimycin A/ Rotenone	May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials.
10.6 Hazardous decomposition products	: 2-deoxyglucose Antimycin A/ Rotenone	Under normal conditions of storage and use, hazardous decomposition products should not be produced. 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
Antimycin A/ Rotenone Sodium chloride	LD50 Oral	Rat	3000 mg/kg	-

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Antimycin A/ Rotenone Polyethylene glycol	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Eyes - Mild irritant	Rabbit	-	500 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	500 milligrams	-
Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Sensitization

Not available.

Section 11. Toxicological information

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure	: 2-deoxyglucose Antimycin A/ Rotenone	Not available. Routes of entry anticipated: Oral, Dermal, Inhalation.
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Potential acute health effects

Eye contact	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. Causes serious eye irritation.
Inhalation	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: 2-deoxyglucose 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	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. No specific data.
Skin contact	: 2-deoxyglucose Antimycin A/ Rotenone	No specific data. No specific data.
Ingestion	: 2-deoxyglucose 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 effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Section 11. Toxicological information

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. No known significant effects or critical hazards.
Carcinogenicity	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: 2-deoxyglucose Antimycin A/ Rotenone	No known significant effects or critical hazards. No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Antimycin A/ Rotenone Oral	39773.1 mg/kg

Section 12. Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Antimycin A/ Rotenone Polyethylene glycol Sodium chloride	Acute LC50 >1000000 µg/l Fresh water	Fish - Salmo salar - Parr	96 hours
	Acute EC50 2430000 µg/l Fresh water	Algae - Navicula seminulum	96 hours
	Acute EC50 28.85 mg/dm ³ Fresh water	Algae - Pseudokirchneriella subcapitata	72 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 1661 mg/l Fresh water	Daphnia - Daphnia magna	48 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

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Section 12. Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Antimycin A/ Rotenone Polyethylene glycol	-	3.2	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : 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.

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 / 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 to Annex II of MARPOL and the IBC Code : Not available.

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 : Not listed

(b) Hazardous Air Pollutants (HAPs)

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
Antimycin A/ Rotenone Antimycin A	≤0.1	Yes.	1000 / 10000	-	1000	-

SARA 304 RQ : 2235267.1 lbs / 1014811.3 kg

SARA 311/312

Classification : deoxyglucose
 Antimycin A/ Rotenone
 Not applicable.
 Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Antimycin A/ Rotenone Polyethylene glycol Sodium chloride	≥90 ≤10	No. No.	No. No.	No. No.	Yes. Yes.	No. No.

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

Not available.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

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

Section 15. Regulatory information

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	: <input checked="" type="checkbox"/> Not determined.
Turkey	: Not determined.
United States	: Not determined.
Viet Nam	: <input checked="" type="checkbox"/> Not determined.

Section 16. Other information

[History](#)

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

Indicates information that has changed from previously issued version.

[Notice to reader](#)

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