# **SAFETY DATA SHEET**



Seahorse XFp Glycolysis Stress Test Kit, Part Number 103017-100

### **Section 1. Identification**

1.1 Product identifier

Product name : Seahorse XFp Glycolysis Stress Test Kit, Part Number 103017-100

Part no. (chemical kit) : 103017-100

Part no. : 2-deoxyglucose Not available.

Glucose Not available.
Oligomycin Not available.

Validation date : 5/12/2023

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

**Identified uses** : For research use only.

**2**-deoxyglucose 6 x 24.624 mg Glucose 6 x 5.405 mg Oligomycin 6 x 16.572 mg

**Uses advised against**: Not for use in diagnostic procedures (RUO).

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.

Glucose 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.

Oligomycin 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.

Classification of the substance or mixture

Not classified.

2.2 GHS label elements

Signal word :

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### Section 2. Hazards identification

2.3 Other hazards
Hazards not otherwise

classified

Hazard statements	2-deoxyglucose Glucose Oligomycin : 2-deoxyglucose Glucose	No signal word. No signal word. No signal word. No known significant effects or critical hazards. No known significant effects or critical hazards.
	Oligomycin	No known significant effects or critical hazards.
<u>Precautionary statements</u>		
Prevention	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
Response	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
Storage	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
Disposal	<ul><li>2-deoxyglucose Glucose Oligomycin</li></ul>	Not applicable. Not applicable. Not applicable.
Supplemental label elements	: 2-deoxyglucose Glucose Oligomycin	None known. None known. None known.

# Section 3. Composition/information on ingredients

: 2-deoxyglucose

Glucose

Oligomycin

Substance/mixture	: 2-deoxyglucose	Substance	
	Glucose	Substance	
	Oligomycin	Mixture	

Ingredient name	%	CAS number
<b>2</b> -deoxyglucose		
2-deoxy-D-glucose	100	154-17-6
Glucose		
Glucose	100	50-99-7

None known.

None known.

None known.

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 and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

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### 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.

Glucose 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.

Oligomycin Immediately flush eyes with plenty of water,

occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get

medical attention if irritation occurs.

Inhalation : 2-deoxyglucose

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur.

Glucose Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

Oligomycin Remove victim to fresh air and keep at rest in a

position comfortable for breathing. Get medical

attention if symptoms occur.

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

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Glucose Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Oligomycin Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

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.

Glucose 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.

Oligomycin 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.

# 4.2 Most important symptoms/effects, acute and delayed Potential acute health effects

Eye contact : 2-deoxyglucose

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

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### Section 4. First aid measures

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

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

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

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

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

Over-exposure signs/symptoms

Inhalation

Skin contact

Eye contact : 2-deoxyglucose No specific data.

Glucose No specific data.
Oligomycin No specific data.

2-deoxyglucose No specific data.
Glucose No specific data.
No specific data.

Oligomycin No specific data.

: 2-deoxyglucose No specific data.

Glucose No specific data.
Oligomycin No specific data.

Ingestion : 2-deoxyglucose No specific data.

Glucose No specific data.
Oligomycin No specific data.

#### 4.3 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.

Glucose Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Oligomycin Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

**Specific treatments** : 2-deoxyglucose No specific treatment.

Glucose No specific treatment.
Oligomycin No specific treatment.

Protection of first-aiders : 2-deoxyglucose No action shall be taken involving any personal risk

or without suitable training.

Glucose No action shall be taken involving any personal risk

or without suitable training.

Oligomycin No action shall be taken involving any personal risk

or without suitable training.

#### See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing

media

: 2-deoxyglucose Use an extinguishing agent suitable for the

surrounding fire.

Glucose Use an extinguishing agent suitable for the

surrounding fire.

Oligomycin Use an extinguishing agent suitable for the

surrounding fire.

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# Section 5. Fire-fighting measures

Unsuitable extinguishing media

: 2-deoxyglucose Glucose Oligomycin

None known. None known. None known.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: 2-deoxyglucose Glucose Oligomycin

No specific fire or explosion hazard. No specific fire or explosion hazard. No specific fire or explosion hazard.

Hazardous thermal decomposition products : 2-deoxyglucose

Decomposition products may include the following materials:

carbon dioxide carbon monoxide

Glucose Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

Oligomycin Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

**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. Glucose

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 Oligomycin

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.

Glucose Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

Oligomycin 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

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

Glucose

risk or without suitable training. Evacuate

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### Section 6. Accidental release measures

Oligomycin

For emergency responders : 2-deoxyglucose

Glucose

Oligomycin

6.2 Environmental

precautions

: 2-deoxyglucose

Glucose

Oligomycin

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : 2-deoxyglucose

Glucose

Oligomycin

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. Put on appropriate personal protective equipment.

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". 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".

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).

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).

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.

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.

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.

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# Section 7. Handling and storage

#### 7.1 Precautions for safe handling

**Protective measures** 

: 2-deoxyglucose

(see Section 8).

Glucose

Put on appropriate personal protective equipment (see Section 8).

Put on appropriate personal protective equipment

Oligomycin

Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

7.2 Conditions for safe

storage, including any

incompatibilities

: 2-deoxyglucose

Glucose

Oligomycin

: 2-deoxyglucose

Glucose

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. 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.

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. 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

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# Section 7. Handling and storage

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**: Z-deoxyglucose Industrial applications, Professional applications. Glucose Industrial applications, Professional applications.

Oligomycin Industrial applications, Professional applications.

Industrial sector specific solutions

: 2-deoxyglucose Glucose Oligomycin Not available. Not available. Not available.

# Section 8. Exposure controls/personal protection

#### **8.1 Control parameters**

#### Occupational exposure limits

Ingredient name	Exposure limits	
<b>2-deoxyglucose</b> 2-deoxy-D-glucose	None.	
Glucose Glucose	None.	

#### **Biological exposure indices**

No exposure indices known.

#### **8.2 Exposure controls**

Appropriate engineering controls

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.

: Good general ventilation should be sufficient to control worker exposure to airborne

#### **Individual protection measures**

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

#### **Skin protection**

**Hand protection** 

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

**Body protection** 

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

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# Section 8. Exposure controls/personal protection

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** 

**Odor threshold** 

Physical state : 2-deoxyglucose Solid. Glucose Solid.

Solid. Oligomycin

: 2-deoxyglucose Not available. Color Not available. Glucose

> Oligomycin White

: 2-deoxyglucose Not available. Odor Glucose Not available. Oligomycin Odorless.

: 2-deoxyglucose Not available. Glucose Not available. Not available. Oligomycin

pН : 2-deoxyglucose Not available.

Glucose 5.9 Oligomycin Not available.

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

> 146°C (294.8°F) Glucose Not available. Oligomycin

> > Not available.

Not applicable.

**Boiling point, initial boiling** 

: 2-deoxyglucose point, and boiling range Not available. Glucose Oligomycin Not available.

: 2-deoxyglucose Flash point Not applicable. Not applicable. Glucose Not applicable. Oligomycin

**Evaporation rate** : 2-deoxyglucose Not available. Glucose Not available. Oligomycin Not available.

**Flammability** 2-deoxyglucose Not available. Glucose Not available. Oligomycin Not available.

: 2-deoxyglucose Lower and upper explosion limit/flammability limit Glucose

Not applicable. Oligomycin Not applicable. Not available. 2-deoxyglucose Vapor pressure Not available. Glucose Oligomycin Not available.

Relative vapor density : 2-deoxyglucose Not applicable. Glucose

Not applicable. Not applicable. Oligomycin : 2-deoxyglucose Not available.

Relative density Glucose 1.56

Not available. Oligomycin

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# Section 9. Physical and chemical properties and safety characteristics

Solubility(ies) Media Result 2-deoxyglucose Soluble water Glucose Soluble water **2**-deoxyglucose Partition coefficient: n-Not applicable. Glucose -3.24 octanol/water Oligomycin Not applicable. : **2**-deoxyglucose Not applicable. **Auto-ignition temperature** Glucose Not applicable. Oligomycin Not applicable. 2-deoxyglucose Not available. **Decomposition temperature** Not available. Glucose Oligomycin Not available. : **2**-deoxyglucose **Viscosity** Not applicable. Glucose Not applicable. Oligomycin Not applicable. **Particle characteristics** : **2**-deoxyglucose Median particle size Not available. Glucose Not available. Not available.

# Section 10. Stability and reactivity

Oligomycin

	•		•	
10.1 Reactivity	:	2-deoxyglucose		No specific test data related to reactivity available for this product or its ingredients.
		Glucose		No specific test data related to reactivity available for this product or its ingredients.
		Oligomycin		No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	2-deoxyglucose		The product is stable.
		Glucose		The product is stable.
		Oligomycin		The product is stable.
10.3 Possibility of hazardous reactions	:	2-deoxyglucose		Under normal conditions of storage and use, hazardous reactions will not occur.
		Glucose		Under normal conditions of storage and use, hazardous reactions will not occur.
		Oligomycin		Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	2-deoxyglucose		No specific data.
		Glucose		No specific data.
		Oligomycin		No specific data.
10.5 Incompatible materials	:	2-deoxyglucose		May react or be incompatible with oxidizing materials.
		Glucose		May react or be incompatible with oxidizing materials.
		Oligomycin		May react or be incompatible with oxidizing materials.

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# Section 10. Stability and reactivity

10.6 Hazardous decomposition products : 2-deoxyglucose

Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Glucose Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Oligomycin Under normal conditions of storage and use,

hazardous decomposition products should not be

# Section 11. Toxicological information

#### 11.1 Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
<b>G</b> lucose				
Glucose	LD50 Oral	Rat	25800 mg/kg	-

#### Irritation/Corrosion

Not available.

#### 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)

Not available.

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes of exposure

: 2-deoxyglucose Glucose Oligomycin

Not available. Not available. Not available.

Potential acute health effects

**Eye contact** : 2-deoxyglucose

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

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

No known significant effects or critical hazards. Oligomycin

No known significant effects or critical hazards. **Skin contact** : 2-deoxyglucose

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

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# **Section 11. Toxicological information**

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

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

Symptoms related to the physical, chemical and toxicological characteristics

**Eye contact** : 2-deoxyglucose No specific data.

Glucose No specific data.
Oligomycin No specific data.

Inhalation : 2-deoxyglucose No specific data.

Glucose No specific data.
Oligomycin No specific data.

**Skin contact**: 2-deoxyglucose No specific data.

Glucose No specific data.
Oligomycin No specific data.

Ingestion : 2-deoxyglucose No specific data.

Glucose No specific data.
Oligomycin 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

Potential delayed effects : Not available.

Long term exposure

Potential immediate

: Not available.

effects

Mutagenicity

Potential delayed effects: Not available.

Potential chronic health effects

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

Glucose No known significant effects or critical hazards.
Oligomycin No known significant effects or critical hazards.
2-deoxyglucose No known significant effects or critical hazards.

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

Glucose No known significant effects or critical hazards.

Oligomycin No known significant effects or critical hazards.

2-deoxyglucose
 Glucose
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

Oligomycin No known significant effects or critical hazards.

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

Glucose No known significant effects or critical hazards. Oligomycin 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)	(vapors)	Inhalation (dusts and mists) (mg/ I)
Glucose Glucose	25800	N/A	N/A	N/A	N/A
Oligomycin Oligomycin	110784.0	N/A	N/A	N/A	N/A

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# Section 11. Toxicological information

# Section 12. Ecological information

#### **12.1 Toxicity**

Not available.

#### 12.2 Persistence and degradability

Not available.

#### 12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Glucose			
Glucose	-3.24	-	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. 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 / : Not regulated. **IATA** 

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.

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# **Section 14. Transport information**

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** 

(Precursor Chemicals)

: Not listed

**DEA List II Chemicals** 

: Not listed

(Essential Chemicals)

**SARA 302/304** 

**Composition/information on ingredients** 

No products were found.

SARA 304 RQ : Not applicable.

**SARA 311/312** 

Classification : 2-deoxyglucose
Glucose

Glucose Not applicable.
Oligomycin Not applicable.

Not applicable.

Composition/information on ingredients

No products were found.

**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.

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# Section 15. Regulatory information

#### **UNECE Aarhus Protocol on POPs and Heavy Metals**

Not listed.

#### **Inventory list**

Australia : Not determined.
Canada : Not determined.
China : Not determined.

**Eurasian Economic Union**: Russian Federation inventory: Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

**New Zealand** : Not determined. : Not determined. **Philippines** 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

#### Procedure used to derive the classification

Classification	Justification
Not classified.	

#### **History**

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**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 = 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

▼ Indicates information that has changed from previously issued version.

#### **Notice to reader**

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