

# SAFETY DATA SHEET



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

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

<b>Product name</b>	: Seahorse XFp Glycolysis Stress Test Kit, Part Number 103017-100	
<b>CAS number</b>	: 2-deoxyglucose	154-17-6
	: Glucose	50-99-7
	: Oligomycin	Not applicable.
<b>Part no. (chemical kit)</b>	: 103017-100	
<b>Part no.</b>	: 2-deoxyglucose	Not available.
	: Glucose	Not available.
	: Oligomycin	Not available.

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

<b>Identified uses</b>	: For research use only.	
	: 2-deoxyglucose	6 x 24.624 mg
	: Glucose	6 x 5.405 mg
	: Oligomycin	6 x 16.572 mg
<b>Uses advised against</b>	: Not for use in diagnostic procedures (RUO).	

### 1.3 Details of the supplier of the safety data sheet

Agilent Technologies Deutschland GmbH  
Hewlett-Packard-Str. 8  
76337 Waldbronn  
Germany  
0800 603 1000

**e-mail address of person responsible for this SDS** : pdl-msds\_author@agilent.com

### 1.4 Emergency telephone number

**Emergency telephone number (with hours of operation)** : CHEMTREC®: +(44)-870-8200418

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

<b>Product definition</b>	: 2-deoxyglucose	Mono-constituent substance
	: Glucose	Mono-constituent substance
	: Oligomycin	Mixture

#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Not classified.

2-deoxyglucose	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Glucose	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Oligomycin	The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended.

**Ingredients of unknown toxicity** : Oligomycin Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 1 - 10%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

## SECTION 2: Hazards identification

### 2.2 Label elements

<b>Signal word</b>	: 2-deoxyglucose Glucose Oligomycin	No signal word. No signal word. No signal word.
<b>Hazard statements</b>	: 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.

#### Precautionary statements

<b>Prevention</b>	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
<b>Response</b>	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
<b>Storage</b>	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
<b>Disposal</b>	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
<b>Supplemental label elements</b>	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.

#### Special packaging requirements

<b>Tactile warning of danger</b>	: 2-deoxyglucose Glucose Oligomycin	Not applicable. Not applicable. Not applicable.
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### 2.3 Other hazards

**Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII**

	PBT	P	B	T	vPvB	vP	vB
<b>2-deoxyglucose</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Glucose</b>	No	N/A	N/A	No	N/A	N/A	N/A

Oligomycin This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

<b>Other hazards which do not result in classification</b>	: 2-deoxyglucose Glucose Oligomycin	None known. None known. None known.
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## SECTION 3: Composition/information on ingredients

<b>3.1 Substances</b>	: 2-deoxyglucose Glucose Oligomycin	Mono-constituent substance Mono-constituent substance Mixture
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### SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
<b>2-deoxyglucose</b> 2-deoxy-D-glucose	EC: 205-823-0 CAS: 154-17-6	100	Not classified.	-	[1]
<b>Glucose</b> Glucose	REACH #: Annex IV EC: 200-075-1 CAS: 50-99-7	100	Not classified.  <b>See Section 16 for the full text of the H statements declared above.</b>	-	[1]

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

2-deoxyglucose [1] Constituent  
Glucose [1] Constituent

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

<b>Eye contact</b>	: 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.
<b>Inhalation</b>	: 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.
<b>Skin contact</b>	: 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.

## SECTION 4: First aid measures

<b>Ingestion</b>	: 2-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.
<b>Protection of first-aiders</b>	: 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.

### 4.2 Most important symptoms and effects, both acute and delayed

#### Potential acute health effects

<b>Eye contact</b>	: 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.
<b>Inhalation</b>	: 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.
<b>Skin contact</b>	: 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.
<b>Ingestion</b>	: 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

<b>Eye contact</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.
<b>Inhalation</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.
<b>Skin contact</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.
<b>Ingestion</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.

### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to physician</b>	: 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.

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## SECTION 4: First aid measures

<b>Specific treatments</b>	: 2-deoxyglucose	No specific treatment.
	Glucose	No specific treatment.
	Oligomycin	No specific treatment.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

<b>Suitable extinguishing media</b>	: 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.
<b>Unsuitable extinguishing media</b>	: 2-deoxyglucose	None known.
	Glucose	None known.
	Oligomycin	None known.

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

<b>Hazards from the substance or mixture</b>	: 2-deoxyglucose	No specific fire or explosion hazard.
	Glucose	No specific fire or explosion hazard.
	Oligomycin	No specific fire or explosion hazard.
<b>Hazardous combustion products</b>	: 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

<b>Special precautions for fire-fighters</b>	: 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.
	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.
<b>Special protective equipment for fire-fighters</b>	: 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Glucose	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.
	Oligomycin	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	:	2-deoxyglucose	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Glucose	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
		Oligomycin	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
<b>For emergency responders</b>	:	2-deoxyglucose	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		Glucose	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
		Oligomycin	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

:	2-deoxyglucose	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Glucose	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
	Oligomycin	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and material for containment and cleaning up

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

### 6.4 Reference to other sections

:	See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.
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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

<b>Protective measures</b>	: 2-deoxyglucose	Put on appropriate personal protective equipment (see Section 8).
	Glucose	Put on appropriate personal protective equipment (see Section 8).
	Oligomycin	Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: 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.
	Glucose	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.
	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.

### 7.2 Conditions for safe storage, including any incompatibilities

<b>Storage</b>	: 2-deoxyglucose	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	Glucose	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.
	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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

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## SECTION 7: Handling and storage

<b>Recommendations</b>	: 2-deoxyglucose Glucose Oligomycin	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: 2-deoxyglucose Glucose Oligomycin	Not available. Not available. Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

#### Biological exposure indices

None known.

**Recommended monitoring procedures** : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### DNELs/DMELs

No DNELs/DMELs available.

#### PNECs

No PNECs available

### 8.2 Exposure controls

**Appropriate engineering controls** : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

#### Individual protection measures

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

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

#### Skin protection

**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.

**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.
- 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.

## SECTION 9: Physical and chemical properties

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

### 9.1 Information on basic physical and chemical properties

#### Appearance

<b>Physical state</b>	: 2-deoxyglucose	Solid.
	Glucose	Solid.
	Oligomycin	Solid.
<b>Colour</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	White.
<b>Odour</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Odourless.
<b>Odour threshold</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b>Melting point/freezing point</b>	: 2-deoxyglucose	146 to 147°C
	Glucose	146°C
	Oligomycin	Not available.
<b>Initial boiling point and boiling range</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b>Flammability</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b>Upper/lower flammability or explosive limits</b>	: 2-deoxyglucose	Not applicable.
	Glucose	Not applicable.
	Oligomycin	Not applicable.
<b>Flash point</b>	: 2-deoxyglucose	Not applicable.
	Glucose	Not applicable.
	Oligomycin	Not applicable.
<b>Auto-ignition temperature</b>	: 2-deoxyglucose	Not applicable.
	Glucose	Not applicable.
	Oligomycin	Not applicable.
<b>Decomposition temperature</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b>pH</b>	: 2-deoxyglucose	Not available.
	Glucose	5.9
	Oligomycin	Not available.
<b>Viscosity</b>	: 2-deoxyglucose	Not applicable.
	Glucose	Not applicable.
	Oligomycin	Not applicable.

<b>Solubility(ies)</b>	<b>Media</b>	<b>Result</b>
	<b>2-deoxyglucose</b>	
water		Soluble
<b>Glucose</b>		
water		Soluble

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**SECTION 9: Physical and chemical properties**

<b>Partition coefficient: n-octanol/water</b>	: 2-deoxyglucose	Not applicable.
	Glucose	-3.24
	Oligomycin	Not applicable.
<b>Vapour pressure</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b>Evaporation rate</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b>Relative density</b>	: 2-deoxyglucose	Not available.
	Glucose	1.56
	Oligomycin	Not available.
<b>Vapour density</b>	: 2-deoxyglucose	Not applicable.
	Glucose	Not applicable.
	Oligomycin	Not applicable.
<b>Explosive properties</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b>Oxidising properties</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.
<b><u>Particle characteristics</u></b>		
<b>Median particle size</b>	: 2-deoxyglucose	Not available.
	Glucose	Not available.
	Oligomycin	Not available.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

<b>10.1 Reactivity</b>	: 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.
<b>10.2 Chemical stability</b>	: 2-deoxyglucose	The product is stable.
	Glucose	The product is stable.
	Oligomycin	The product is stable.
<b>10.3 Possibility of hazardous reactions</b>	: 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.
<b>10.4 Conditions to avoid</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.
<b>10.5 Incompatible materials</b>	: 2-deoxyglucose	May react or be incompatible with oxidising materials.
	Glucose	May react or be incompatible with oxidising materials.
	Oligomycin	May react or be incompatible with oxidising materials.

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## SECTION 10: Stability and reactivity

<b>10.6 Hazardous decomposition products</b>	: 2-deoxyglucose Glucose Oligomycin	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. Under normal conditions of storage and use, hazardous decomposition products should not be produced.
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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

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

#### Acute toxicity estimates

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>Glucose</b> Glucose	25800	N/A	N/A	N/A	N/A

#### Irritation/Corrosion

**Conclusion/Summary** : Not available.

#### Sensitiser

**Conclusion/Summary** : 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 likely routes of exposure

: 2-deoxyglucose Glucose Oligomycin	Not available. Not available. Not available.
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#### Potential acute health effects

<b>Inhalation</b>	: 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.
<b>Ingestion</b>	: 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.

## SECTION 11: Toxicological information

<b>Skin contact</b>	: 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.
<b>Eye contact</b>	: 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

<b>Inhalation</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.
<b>Ingestion</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.
<b>Skin contact</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.
<b>Eye contact</b>	: 2-deoxyglucose	No specific data.
	Glucose	No specific data.
	Oligomycin	No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

### Potential chronic health effects

<b>General</b>	: 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.
<b>Carcinogenicity</b>	: 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.
<b>Mutagenicity</b>	: 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.
<b>Reproductive toxicity</b>	: 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.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Conclusion/Summary** : Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
<b>Glucose</b> Glucose	-3.24	-	low

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
<b>2-deoxyglucose</b> 2-deoxyglucose	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>Glucose</b> Glucose	No	N/A	N/A	No	N/A	N/A	N/A

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 2008/98/EC.

#### Packaging

**Methods of disposal** : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions** : 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 spilt material and runoff and contact with soil, waterways, drains and sewers.

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## SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	No.	No.	No.

### Additional information

**14.6 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.

**14.7 Transport in bulk according to IMO instruments** : Not available.

## SECTION 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
[EU Regulation \(EC\) No. 1907/2006 \(REACH\)](#)

[Annex XIV - List of substances subject to authorisation](#)

### [Annex XIV](#)

None of the components are listed.

### [Substances of very high concern](#)

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

Not listed.

**Label** : 2-deoxyglucose Not applicable.  
Glucose Not applicable.  
Oligomycin Not applicable.

### [Other EU regulations](#)

[Ozone depleting substances \(1005/2009/EU\)](#)

Not listed.

[Prior Informed Consent \(PIC\) \(649/2012/EU\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

[Seveso Directive](#)

This product is not controlled under the Seveso Directive.

[International regulations](#)

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## SECTION 15: Regulatory information

### 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

<b>Australia</b>	: Not determined.
<b>Canada</b>	: Not determined.
<b>China</b>	: Not determined.
<b>Eurasian Economic Union</b>	: <b>Russian Federation inventory</b> : Not determined.
<b>Japan</b>	: <b>Japan inventory (CSCL)</b> : Not determined. <b>Japan inventory (ISHL)</b> : Not determined.
<b>New Zealand</b>	: Not determined.
<b>Philippines</b>	: Not determined.
<b>Republic of Korea</b>	: Not determined.
<b>Taiwan</b>	: Not determined.
<b>Thailand</b>	: Not determined.
<b>Turkey</b>	: Not determined.
<b>United States</b>	: Not determined.
<b>Viet Nam</b>	: Not determined.

**15.2 Chemical safety assessment** : This product contains substances for which Chemical Safety Assessments might still be required.

## SECTION 16: Other information

✔ Indicates information that has changed from previously issued version.

**Abbreviations and acronyms** : ATE = Acute Toxicity Estimate  
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
vPvB = Very Persistent and Very Bioaccumulative

### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
Not classified.	

### Full text of abbreviated H statements

Not applicable.

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## SECTION 16: Other information

### [Full text of classifications \[CLP/GHS\]](#)

Not applicable.

**Date of issue/ Date of revision** : 12/05/2023

**Date of previous issue** : No previous validation

**Version** : 1

### [Notice to reader](#)

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