# **SAFETY DATA SHEET**



Seahorse XF Glycolysis Stress Test Kit, Part Number 103020-100

## **Section 1. Identification**

Product identifier : Seahorse XF Glycolysis Stress Test Kit, Part Number 103020-100

Part no. (chemical kit) : 103020-100

Part no. : Slucose Not available.

2-deoxyglucose Not available. Oligomycin Not available.

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

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

 Silucose
 6 x 54.048 mg

 2-deoxyglucose
 6 x 246.24 mg

 Oligomycin
 6 x 16.572 mg

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

**Supplier/Manufacturer**: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

**Emergency telephone** number (with hours of

operation)

: CHEMTREC®: 1-800-424-9300

## Section 2. Hazard identification

#### Classification of the substance or mixture

**G**lucose

**COMBUSTIBLE DUSTS - Category 1** 

**GHS label elements** 

Signal word : Clucose Warning

2-deoxyglucose No signal word. Oligomycin No signal word.

Hazard statements : Ølucose May form combustible dust concentrations in air.

2-deoxyglucose No known significant effects or critical hazards.

Oligomycin No known significant effects or critical hazards.

**Precautionary statements** 

Prevention : Success Not applicable.

2-deoxyglucose Not applicable.Oligomycin Not applicable.Slucose Not applicable.

Response : Slucose Not applicable. 2-deoxyglucose Not applicable.

Oligomycin Not applicable.

Storage : Clucose Not applicable.
2-deoxyglucose Not applicable.

Oligomycin Not applicable.

Slucose Not applicable.

Disposal : Diucose Not applicable.
2-deoxyglucose Not applicable.
Oligomycin Not applicable.

## Section 2. Hazard identification

Supplemental label

elements

: Clucose

Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Prevent dust accumulation.

2-deoxyglucose None known.
Oligomycin None known.
Oligomycin None known.

Other hazards which do not result in classification

2-deoxyglucose None known. Oligomycin None known.

## Section 3. Composition/information on ingredients

Substance/mixture : ©lucose Substance 2-deoxyglucose Oligomycin Mixture

Ingredient name	Synonyms	% (w/w)	CAS number
Glucose			
Glucose	Dextrose	100	50-99-7
2-deoxyglucose			
2-deoxy-D-glucose	2-deoxyglucose	100	154-17-6

Ranges if listed above for hazardous ingredient(s) are prescribed ranges. The actual concentration(s) or actual concentration range(s) are being withheld as a trade secret.

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.

## Section 4. First-aid measures

Description of necessary first aid measures

Eye contact : Slucose 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.

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.

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 : Success Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

2-deoxyglucose 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.

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## Section 4. First-aid measures

Skin contact : Ducose Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

2-deoxyglucose 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 : Slucose 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.

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.

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.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

Eye contact : 💆 Exposure to airborne concentrations above statutory

or recommended exposure limits may cause irritation

of the eyes.

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

Inhalation : 🗹 Exposure to airborne concentrations above statutory

or recommended exposure limits may cause irritation

of the nose, throat and lungs.

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

Skin contact : 🗹 ucose No known significant effects or critical hazards.

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

Ingestion : 🗹 ucose No known significant effects or critical hazards.

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

#### Over-exposure signs/symptoms

Eye contact : Ducose Adverse symptoms may include the following:

irritation redness

2-deoxyglucose No specific data.
Oligomycin No specific data.

Inhalation : Diucose Adverse symptoms may include the following:

respiratory tract irritation

coughing

2-deoxyglucose No specific data.
Oligomycin No specific data.

Skin contact : Clucose No specific data.

2-deoxyglucose No specific data.
Oligomycin No specific data.

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## Section 4. First-aid measures

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

No specific data. Oligomycin

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

: Clucose Notes to physician Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

2-deoxyglucose Treat symptomatically. Contact poison treatment

specialist immediately if large quantities have been

ingested or inhaled.

Treat symptomatically. Contact poison treatment Oligomycin

specialist immediately if large quantities have been

ingested or inhaled.

: Clucose No specific treatment. **Specific treatments** 

2-deoxyglucose No specific treatment. No specific treatment. Oligomycin

**Protection of first-aiders** : Clucose No action shall be taken involving any personal risk

or without suitable training.

2-deoxyglucose No action shall be taken involving any personal risk

or without suitable training.

No action shall be taken involving any personal risk Oligomycin

or without suitable training.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing

media

: Clucose Use dry chemical powder. 2-deoxyglucose

Use an extinguishing agent suitable for the

surrounding fire.

Use an extinguishing agent suitable for the Oligomycin

surrounding fire.

**Unsuitable extinguishing** 

media

: Clucose

Avoid high pressure media which could cause the

formation of a potentially explosible dust-air mixture.

2-deoxyglucose None known. Oligomycin None known.

Specific hazards arising from the chemical

: Clucose

May form explosible dust-air mixture if dispersed.

2-deoxyglucose No specific fire or explosion hazard. Oligomycin No specific fire or explosion hazard.

**Hazardous thermal** 

decomposition products

: Clucose

Decomposition products may include the following

materials: carbon dioxide carbon monoxide

2-deoxyglucose Decomposition products may include the following

> materials: carbon dioxide carbon monoxide

Oligomycin Decomposition products may include the following

materials:

halogenated compounds metal oxide/oxides

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## Section 5. Fire-fighting measures

Special protective actions for fire-fighters

: Ølucose

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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

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.

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.

Special protective equipment for fire-fighters

: Clucose

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

pressure mode.

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.

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

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

For non-emergency personnel

: Clucose

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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing dust. Put on appropriate personal

protective equipment.

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.

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 spilled material. Put on appropriate personal

protective equipment.

For emergency responders: Sucose 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

2-deoxyglucose 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

Oligomycin If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on

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## Section 6. Accidental release measures

suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions**: Success

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).

2-deoxyglucose

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Oligomycin

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).

#### Methods and materials for containment and cleaning up

Methods for cleaning up : Glucose

Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

2-deoxyglucose

Oligomycin

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

# Section 7. Handling and storage

Precautions for safe handling

Protective measures : Elucose

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing dust. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.

2-deoxyglucose

Put on appropriate personal protective equipment

(see Section 8).

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## Section 7. Handling and storage

Oligomycin

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

Advice on general occupational hygiene : Clucose

2-deoxyglucose

Oligomycin

Conditions for safe storage, : Clucose including any incompatibilities

2-deoxyglucose

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 a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidizing materials. 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 to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before

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# Section 7. Handling and storage

handling or use.

# Section 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

None.

#### **Biological exposure indices**

No exposure indices known.

# 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: 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.

#### **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**

Physical state : Solid. 2-deoxyglucose Solid.

2-deoxyglucose Solid. Oligomycin Solid.

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# Section 9. Physical and chemical properties and safety characteristics

Color	:	Clucose		Not availab				
		2-deoxyglucose Oligomycin		Not availab White.	le.			
Odor		<b>S</b> lucose		Not availab	ام			
Guoi	•	2-deoxyglucose		Not availab				
		Oligomycin		Odorless.				
Odor threshold	:	<b>6</b> lucose		Not availab				
		2-deoxyglucose		Not availab				
		Oligomycin		Not availab				
pH	:	<b>Ø</b> lucose		Not availab				
		2-deoxyglucose Oligomycin		Not availab Not availab				
Melting point/freezing point	٠.	Slucose		146°C (294				
Meiting point/freezing point	•	2-deoxyglucose			°C (294.8 to 296.6°F	:)		
		Oligomycin		Not availab		,		
Boiling point, initial boiling	:	<b>6</b> lucose		Not availab	le.			
point, and boiling range		2-deoxyglucose		Not availab	le.			
		Oligomycin		Not availab				
Flash point	:	Ølucose		Not applica				
		2-deoxyglucose Oligomycin		Not applica Not applica				
Evaporation rate		Slucose		Not availab				
Evaporation rate		2-deoxyglucose		Not availab				
		Oligomycin		Not availab				
Flammability	:	<b>6</b> lucose		Not availab	le.			
		2-deoxyglucose		Not availab				
		Oligomycin		Not availab	le.			
Lower and upper explosion	:	⊠ucose		Not applica				
limit/flammability limit		2-deoxyglucose		Not applica				
V		Oligomycin		Not applica	DIE.			
Vapor pressure	÷	Not available.		N1 . 4	L.I.			
Relative vapor density	÷	☑lucose 2-deoxyglucose		Not applica Not applica				
		Oligomycin		Not applica				
Relative density		<b>S</b> lucose		1.56				
	Ť	2-deoxyglucose		Not availab	le.			
		Oligomycin		Not availab	le.			
Solubility(ies)	:	Media			Result			
		Glucose						
		water			Soluble			
		2-deoxyglucos	9					
		water			Soluble			
Partition coefficient: n-	:	<b>Ø</b> lucose		-3.24				
octanol/water		2-deoxyglucose		Not availab				
A		Oligomycin		Not applica				
Auto-ignition temperature	•	©lucose		500°C (932	,			
		2-deoxyglucose Oligomycin		Not applica Not applica				
Decomposition temperature	:	<b>6</b> lucose		Not availab				
		2-deoxyglucose		Not availab	le.			
		Oligomycin		Not availab	le.			
Viscosity	:	<b>S</b> lucose		Not applica				
		2-deoxyglucose		Not applica				
		Oligomycin		Not applica				
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## Section 9. Physical and chemical properties and safety characteristics

Particle characteristics

Median particle size : Clucose Not available. 2-deoxyglucose Not available.

Oligomycin Not available.

Section 10. Stability and reactivity

: Clucose Reactivity No specific test data related to reactivity available for

this product or its ingredients.

No specific test data related to reactivity available for 2-deoxyglucose

this product or its ingredients.

No specific test data related to reactivity available for Oligomycin

this product or its ingredients.

**Chemical stability** : Ølucose The product is stable.

> 2-deoxyglucose The product is stable. Oligomycin The product is stable.

Possibility of hazardous

reactions

: Clucose Under normal conditions of storage and use,

hazardous reactions will not occur.

Under normal conditions of storage and use, 2-deoxyglucose

hazardous reactions will not occur.

Oligomycin Under normal conditions of storage and use,

hazardous reactions will not occur.

**Conditions to avoid** : Clucose Avoid the creation of dust when handling and avoid

> all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before

transferring material. Prevent dust accumulation.

No specific data. 2-deoxyglucose Oligomycin No specific data.

: Clucose Incompatible materials Reactive or incompatible with the following materials:

oxidizing materials

2-deoxyglucose May react or be incompatible with oxidizing materials. May react or be incompatible with oxidizing materials. Oligomycin

: Olucose

**Hazardous decomposition** products

Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

2-deoxyglucose 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

produced.

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## Section 11. Toxicological information

#### 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

: Clucose 2-deoxyglucose Oligomycin

Not available. Not available. Not available.

Potential acute health effects

: Clucose **Eye contact** 

Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation

of the eyes.

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

: Clucose Exposure to airborne concentrations above statutory Inhalation

or recommended exposure limits may cause irritation

No known significant effects or critical hazards.

of the nose, throat and lungs.

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

Skin contact : Clucose No known significant effects or critical hazards.

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

Ingestion : Clucose

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

Symptoms related to the physical, chemical and toxicological characteristics

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## Section 11. Toxicological information

**Eye contact** : Clucose Adverse symptoms may include the following:

irritation redness

2-deoxyglucose No specific data.
Oligomycin No specific data.

Inhalation : Slucose Adverse symptoms may include the following:

respiratory tract irritation

coughing

2-deoxyglucose No specific data.
Oligomycin No specific data.

Olucose No specific data.

2-deoxyglucose No specific data.
Oligomycin No specific data.

Ingestion : Diucose No specific data. 2-deoxyglucose 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

effects

**Skin contact** 

: Not available.

Potential delayed effects

: Not available.

Long term exposure

**Potential immediate** 

: Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : Slucose Repeated or prolonged inhalation of dust may lead to

chronic respiratory irritation.

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

Carcinogenicity : Ølucose No known significant effects or critical hazards.

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

Mutagenicity : 🗹 ucose No known significant effects or critical hazards.

2-deoxyglucose

No known significant effects or critical hazards.

No known significant effects or critical hazards.

**Reproductive toxicity**: Øucose No known significant effects or critical hazards.

2-deoxyglucose 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)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
<b>Glucose</b> 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

#### **Toxicity**

Not available.

#### Persistence and degradability

Not available.

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
<b>S</b> lucose			
Glucose	-3.24	-	Low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

#### **Disposal methods**

: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and 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.

## Section 14. Transport information

TDG / IMDG / IATA

: Not regulated.

Special precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according : Not available. to IMO instruments

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## Section 15. Regulatory information

#### **Canadian lists**

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

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### **Montreal Protocol**

Not listed.

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** 

Canada : Not determined.
United States : Not determined.

## Section 16. Other information

#### **History**

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revision

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

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

#### Procedure used to derive the classification

Classification	Justification
Glucose	
COMBUSTIBLE DUSTS - Category 1	On basis of test data

<sup>✓</sup> Indicates information that has changed from previously issued version.

#### **Notice to reader**

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Date of issue/Date of revision : 04/30/2024 Date of previous issue : 04/28/2020 Version : 4 14/14