SAFETY DATA SHEET



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

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

1.1 Product identifier

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

CAS number : **G**lucose 50-99-7 2-deoxyglucose 154-17-6

Oligomycin Not applicable.

Part no. (chemical kit) : 103020-100

Part no. : Sucose Not available.

2-deoxyglucose Not available. Oligomycin Not available.

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

Identified uses : For research use only.

 Ølucose
 6 x 54.048 mg

 2-deoxyglucose
 6 x 246.24 mg

 Oligomycin
 6 x 16.572 mg

Uses advised against: Mot for use in diagnostic procedures (RUO).

1.3 Details of the supplier of the safety data sheet

Agilent Technologies LDA UK Ltd.

5500 Lakeside Cheadle Royal Business Park,

Cheadle, Cheshire, SK8 3GR

United Kingdom

Tel: +44 (0) 345 712 5292

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

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

Product definition : Sucose Mono-constituent substance

2-deoxyglucose Mono-constituent substance

Oligomycin Mixture

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

Not classified.

☑ucose The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

2-deoxyglucose The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Oligomycin The product is not classified as hazardous according to UK CLP

Regulation SI 2019/720 as amended.

Ingredients of unknown : Digomycin Percentage of the mixture consisting of ingredient(s) of

toxicity 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.

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SECTION 2: Hazards identification

2.2 Label elements

Storage

: Ølucose Signal word No signal word.

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

Hazard statements : Clucose No known significant effects or critical hazards.

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

Precautionary statements

Prevention : Clucose Not applicable.

> 2-deoxyglucose Not applicable. Not applicable. Oligomycin

: Ølucose Not applicable. Response 2-deoxyglucose Not applicable. Not applicable. Oligomycin

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

Disposal : Ølucose Not applicable.

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

Supplemental label elements Oligomycin Not applicable. **Annex XVII - Restrictions** : Clucose Not applicable. 2-deoxyglucose Not applicable. Oligomycin Not applicable.

Oligomycin

on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

Tactile warning of

danger

: Clucose Not applicable. 2-deoxyglucose Not applicable. Oligomycin Not applicable. **6**lucose Not applicable. 2-deoxyglucose Not applicable. Oligomycin Not applicable.

2.3 Other hazards

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

PBT	Р	В	Т	vPvB	vP	vB	
©lucose No	N/A	N/A	No	N/A	N/A	N/A	
2-deoxyglu	cose						
N/A	N/A	N/A	N/A	N/A	N/A	N/A	

Øligomycin This mixture does not contain any substances that are

assessed to be a PBT or a vPvB.

Other hazards which do not result in

classification

: Ølucose May form combustible dust concentrations in air. 2-deoxyglucose None known.

None known.

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SECTION 3: Composition/information on ingredients

3.1 Substances : 🗹 ucose Mono-constituent substance 2-deoxyglucose Mono-constituent substance

Oligomycin Mixture

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

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.

<u>Type</u>

Elucose [1] Constituent 2-deoxyglucose [1] Constituent Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1	Description	of first aid	measures

Eye contact : Sucose 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

Oligomycin any contact lenses. Get medical attention if irritation occurs.

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

comfortable for breathing. Get medical attention if symptoms

occur.

2-deoxyglucose Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if symptoms occur.

occui.

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

comfortable for breathing. Get medical attention if symptoms

occur.

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 : Success 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.

2-deoxyglucose Wash out mouth with water. If material has been swallowed

and the exposed person is conscious, give small quantities of

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SECTION 4: First aid measures

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

No action shall be taken involving any personal risk or without **Protection of first-aiders** : Clucose

suitable training.

2-deoxyglucose 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

Over-exposure signs/symptoms

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

irritation

redness 2-deoxyglucose No specific data.

Oligomycin No specific data.

: Clucose Adverse symptoms may include the following: Inhalation

respiratory tract irritation

couahina

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

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

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

4.3 Indication of any immediate medical attention and special treatment needed

: Clucose Notes to physician Treat symptomatically. Contact poison treatment specialist

> immediately if large quantities have been ingested or inhaled. Treat symptomatically. Contact poison treatment specialist

2-deoxyglucose immediately if large quantities have been ingested or inhaled.

Treat symptomatically. Contact poison treatment specialist

Oligomycin immediately if large quantities have been ingested or inhaled.

6lucose No specific treatment. **Specific treatments**

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

media

Ingestion

Suitable extinguishing : Clucose Use dry chemical powder.

2-deoxyglucose media

Use an extinguishing agent suitable for the surrounding fire. Oligomycin Use an extinguishing agent suitable for the surrounding fire. Unsuitable extinguishing : Ducose

Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture.

2-deoxyglucose None known.

None known. Oligomycin

5.2 Special hazards arising from the substance or mixture

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Oligomycin

SECTION 5: Firefighting measures

Hazards from the substance or mixture

: Clucose May 2-deoxyglucose No s

May form explosible dust-air mixture if dispersed.

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

Hazardous combustion

products

: **Ø**lucose 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

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Ølucose

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. Move containers from fire area if this can be done without

risk. Use water spray to keep fire-exposed containers cool. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

taken involving any personal risk or without suitable training. Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be

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

Oligomycin

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

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

: Ølucose

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. 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 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.

For emergency responders

: Ølucose

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".

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-

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SECTION 6: Accidental release measures

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

: Success : Succ

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 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

Methods for cleaning up : 🖸 lucose Move containers from spill area. Use spark-proof tools and

explosion-proof equipment. Vacuum or sweep up material and place in a designated, labelled waste container.

Dispose of via a licensed waste disposal contractor.

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.

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.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : Diucose Put on appropriate personal protective equipment (see

Section 8). 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. 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 earthing and bonding containers and equipment before transferring

material.

2-deoxyglucose Put on appropriate personal protective equipment (see

Section 8).

Oligomycin Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene

: Clucose

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.

2-deoxyglucose Eating, drinking and smoking should be prohibited in areas

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Oligomycin

SECTION 7: Handling and storage

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.

7.2 Conditions for safe storage, including any incompatibilities

Storage : Ducose S

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 oxidising 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 unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials

before handling or use.

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.

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)

solutions

Industrial sector specific

Recommendations: Success Industrial applications, Professional applications.

2-deoxyglucose Industrial applications, Professional applications.
Oligomycin Industrial applications, Professional applications.

: Clucose Not available.

2-deoxyglucose Not available.
Oligomycin Not available.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. 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 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.

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.

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

Physical state : Solid. 2-deoxyglucose Solid. Solid.

Oligomycin Solid.

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SECTION 9: Physical and chemical properties

SECTION 9: Physica	aı	<u> </u>	-	
Colour	:	☑ucose 2-deoxyglucose Oligomycin	Not available. Not available. White.	
Odour	:	☑lucose 2-deoxyglucose Oligomycin	Not available. Not available. Odourless.	
Odour threshold	:	Ø lucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Melting point/freezing point	:	☑ucose 2-deoxyglucose Oligomycin	146°C 146 to 147°C Not available.	
Initial boiling point and boiling range	:	☑ucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Flammability	:	☑ucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Upper/lower flammability or explosive limits	:	☑lucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.	
Flash point	:	©lucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.	
Auto-ignition temperature	:	Sucose 2-deoxyglucose Oligomycin	500°C Not applicable. Not applicable.	
Decomposition temperature	:	Sucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
рН	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Viscosity	:	☑ucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.	
Solubility(ies)	:	Media		Result
		Siucose water 2-deoxyglucose		Soluble
		water		Soluble
Partition coefficient: n- octanol/water	:	☑ucose 2-deoxyglucose Oligomycin	-3.24 Not available. Not applicable.	
Vapour pressure	:	⋈ ot available.		
Evaporation rate	:	©lucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Relative density	:	☑ucose 2-deoxyglucose Oligomycin	1.56 Not available. Not available.	
Vapour density	:	Clucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.	
Explosive properties	:	☑lucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	

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SECTION 9: Physical and chemical properties

Oxidising properties Ølucose Not available.

2-deoxyglucose Not available. Oligomycin Not available.

Particle characteristics

Clucose Median particle size Not available. 2-deoxyalucose Not available.

Oligomycin Not available.

9.2 Other information

hazardous reactions

No additional information.

SECTION 10: Stability and reactivity

: Clucose 10.1 Reactivity No specific test data related to reactivity available for this

product or its ingredients.

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

product or its ingredients.

No specific test data related to reactivity available for this Oligomycin

product or its ingredients.

: Ølucose 10.2 Chemical stability The product is stable.

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

: Ølucose 10.3 Possibility of Under normal conditions of storage and use, hazardous

reactions will not occur.

2-deoxyglucose 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.

: Clucose 10.4 Conditions to avoid 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 earthing and bonding containers and equipment

before transferring material. Prevent dust accumulation.

2-deoxyglucose No specific data.

Oligomycin No specific data.

: Clucose 10.5 Incompatible Reactive or incompatible with the following materials: materials

oxidising materials 2-deoxyglucose May react or be incompatible with oxidising materials.

Oligomycin May react or be incompatible with oxidising materials.

10.6 Hazardous : Clucose Under normal conditions of storage and use, hazardous decomposition products

decomposition products should not be produced.

Under normal conditions of storage and use, hazardous 2-deoxyglucose decomposition products should not be produced.

Under normal conditions of storage and use, hazardous Oligomycin

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
Glucose Glucose	LD50 Oral	Rat	25800 mg/kg	-

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapours)	
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.

Skin contact

Information on likely: SucoseNot available.routes of exposure2-deoxyglucoseNot available.

Oligomycin Not available.

Potential acute health effects

Inhalation : Diucose 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.

Ingestion : ©lucose 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.

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

Eye contact: Sucose 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.

Symptoms related to the physical, chemical and toxicological characteristics

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SECTION 11: Toxicological information

Inhalation : Clucose Adverse symptoms may include the following:

respiratory tract irritation

coughing

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

If in the control of the control

Oligomycin No specific data.

: Slucose No specific data.
2-deoxyglucose No specific data.

Oligomycin No specific data.

Eye contact : Ducose Adverse symptoms may include the following:

irritation redness

2-deoxyglucose 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

Ingestion

Skin contact

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

Conclusion/Summary: Not available.

General : Ølucose Repeated or prolonged inhalation of dust may lead to chronic

respiratory irritation.

2-deoxyglucose No known significant effects or critical hazards.

No known significant effects or critical hazards.

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

Oligomycin No known significant effects or critical hazards.

Slucose No known significant effects or critical hazards.

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

Reproductive toxicity : 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.

SECTION 12: Ecological information

12.1 Toxicity

Mutagenicity

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential	
G lucose				
Glucose	-3.24	-	Low	

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SECTION 12: Ecological information

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Glucose Glucose	No	N/A	N/A	No	N/A	N/A	N/A
2-deoxyglucose 2-deoxy-D-glucose	N/A	N/A	N/A	N/A	N/A	N/A	N/A

12.6 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.

SECTION 14: Transport information

	ADR/RID	IMDG	IATA
14.1 UN 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

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SECTION 14: Transport 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

UK (GB)/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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

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

No listed substance

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

2-deoxyglucose Not applicable.
Oligomycin Not applicable.

Seveso Directive

This product is not controlled under the Seveso Directive.

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments might still be

assessment required.

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)

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SECTION 15: Regulatory information

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

United States : Not determined.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and

: ATE = Acute Toxicity Estimate

acronyms

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

Classification	Justification		
Not classified.			

Full text of abbreviated H statements

Not applicable.

Full text of classifications

Not applicable.

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Notice to reader

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