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** : Seahorse XF Glycolysis Stress Test Kit, Part Number 103020-100 **Product name** 50-99-7 **CAS** number : Glucose 2-deoxyglucose 154-17-6 Oligomycin Not applicable. Part no. (chemical kit) : 103020-100 Not available. Part no. Glucose 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. Glucose 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). 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 : pdl-msds_author@agilent.com e-mail address of person responsible for this SDS 1.4 Emergency telephone number **Emergency telephone** : CHEMTREC®: +(44)-870-8200418 number (with hours of operation) **SECTION 2: Hazards identification**

2.1 Classification of the su	bstance or mixture		
Product definition	: Glucose 2-deoxyglucose Oligomycin	Mono-constituent substance Mono-constituent substance Mixture	
Classification according t	to Regulation (EC) No. 1272/	2008 [CLP/GHS]	
Not classified.			
Glucose	The product is not c 1272/2008 as amen	lassified as hazardous according to Regulation (EC) ded.	
2-deoxyglucose	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 t	ext of the H statements declar	ed above.	
See Section 11 for more de	tailed information on health ef	fects and symptoms.	

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 1/16

SECTION 2: Hazards identification

2.2 Label elements			
Signal word	:	Glucose 2-deoxyglucose Oligomycin	No signal word. No signal word. No signal word.
Hazard statements	:	Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Precautionary statements			
Prevention	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Response	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Storage	-	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Disposal	-	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Supplemental label elements	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Special packaging require	m	<u>ents</u>	
Tactile warning of danger	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. 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
	Glucose No	N/A	N/A	No	N/A	N/A	N/A
	2-deoxyglucos	se					
	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	Oligomycin			ure does not I to be a PBT		ubstances tl	hat are
Other hazards which do not result in classification	: Glucose 2-deoxyglucos Oligomycin	se	May forr None kn None kn		e dust concen	trations in a	ir.

SECTION 3: Composition/information on ingredients

3.1 Substances	: Glucose 2-deoxyglucose	Mono-constituent substance Mono-constituent substance Mixture
	Oligomycin	WIXIULE

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
Glucose					
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.

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

SECTION 4: First aid measures

4.1 Description of firs	t aid measures	
Eye contact	: 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.
	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	: Glucose	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.
	Oligomycin	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
Skin contact	: Glucose	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.

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SECTION 4: First ai	d measures	
Ingestion	: 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.
	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.
Protection of first-aiders	: Glucose	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.
	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

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Eye contact	: Glucose	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Glucose	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
	2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Over-exposure signs/	<u>symptoms</u>	
Eye contact	: Glucose	Adverse symptoms may include the following: irritation redness
	2-deoxyglucose Oligomycin	No specific data. No specific data.
Inhalation	: Glucose 2-deoxyglucose Oligomycin	Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. No specific data.
Skin contact	: Glucose 2-deoxyglucose Oligomycin	No specific data. No specific data. No specific data.
Ingestion	: Glucose 2-deoxyglucose Oligomycin	No specific data. No specific data. No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

SECTION 4: First aid measures

Notes to physician	: Glucose	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.
	Oligomycin	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	: Glucose 2-deoxyglucose Oligomycin	No specific treatment. No specific treatment. No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media		
Suitable extinguishing media	: Glucose 2-deoxyglucose Oligomycin	Use dry chemical powder. Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: Glucose 2-deoxyglucose Oligomycin	Avoid high pressure media which could cause the formation of a potentially explosible dust-air mixture. None known. None known.
5.2 Special hazards arising	om the substance or mixtu	ıre
Hazards from the substance or mixture	: Glucose 2-deoxyglucose Oligomycin	May form explosible dust-air mixture if dispersed. No specific fire or explosion hazard. No specific fire or explosion hazard.
Hazardous combustion products	: Glucose	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 precautions for fire-fighters	: 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. 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	: 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
	2-deoxyglucose	basic level of protection for chemical incidents. 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 a chemical inscients.
	Oligomycin	basic level of protection for chemical incidents. Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full

SECTION 5: Firefighting measures

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

For non-emergency personnel	: Glucose	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from enterin 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 enterin 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 enterin Do not touch or walk through spilt material. Put on appropriate personal protective equipment.
For emergency responders	: 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".
	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".
	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 nor emergency personnel".
.2 Environmental precautions	: Glucose	Avoid dispersal of spilt material and runoff and contact wit soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental polluti (sewers, waterways, soil or air).
	2-deoxyglucose	Avoid dispersal of spilt material and runoff and contact wit soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental polluti
	Oligomycin	(sewers, waterways, soil or air). Avoid dispersal of spilt material and runoff and contact wit soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental polluti (sewers, waterways, soil or air).

6.3 Methods and material 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, 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.

SECTION 6: Accidental release measures

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 h	nandling	
Protective measures	: Glucose	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	: 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.
	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.
	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

Storage	: Glucose	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
	2-deoxyglucose	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

SECTION 7: Handling and storage

	prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental
	contamination. See Section 10 for incompatible materials
Oligamucin	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)

Recommendations	: Glucose 2-deoxyglucose Oligomycin	Industrial applications, Professional applications. Industrial applications, Professional applications. Industrial applications, Professional applications.
Industrial sector specific solutions	: Glucose 2-deoxyglucose 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

No exposure indices 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.
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SECTION 8: Exposure controls/personal protection

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.	5
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 necessary.	
Body protection	Personal protective equipment for the body should be selected based on the task bei performed and the risks involved and should be approved by a specialist before handling this product.	ng
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 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

Appearance			
Physical state	:	Glucose 2-deoxyglucose Oligomycin	Solid. Solid. Solid.
Colour	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. White.
Odour	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Odourless.
Odour threshold	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.
Melting point/freezing point	:	Glucose 2-deoxyglucose Oligomycin	146°C 146 to 147°C Not available.
Initial boiling point and boiling range	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.
Flammability	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.
Upper/lower flammability or explosive limits	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Flash point	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Auto-ignition temperature	:	Glucose 2-deoxyglucose Oligomycin	500°C Not applicable. Not applicable.
Data of issue/Data of revision	_	20/04/2024 Data of proviou	

9/16

SECTION 9: Physical and chemical properties

Decomposition temperature	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
рН	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Viscosity		Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.	
Solubility(ies)	:	Media		Result
		Glucose water 2-deoxyglucose water		Soluble Soluble
Partition coefficient: n- octanol/water	:	Glucose 2-deoxyglucose Oligomycin	-3.24 Not available. Not applicable.	
Vapour pressure	:	Not available.		
Evaporation rate	-	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Relative density	:	Glucose 2-deoxyglucose Oligomycin	1.56 Not available. Not available.	
Vapour density	:	Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.	
Explosive properties	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Oxidising properties	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	
Particle characteristics				
Median particle size	:	Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.	

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

: Glucose	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.
Oligomycin	No specific test data related to reactivity available for this product or its ingredients.
: Glucose	The product is stable.
2-deoxyglucose	The product is stable.
Oligomycin	The product is stable.
	2-deoxyglucose Oligomycin : Glucose 2-deoxyglucose

10.3 Possibility of hazardous reactions	: Glucose	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.
10.4 Conditions to avoid	: Glucose	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 Oligomycin	No specific data. No specific data.
10.5 Incompatible materials	: Glucose	Reactive or incompatible with the following materials: oxidising materials
	2-deoxyglucose Oligomycin	May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.
10.6 Hazardous decomposition products	: Glucose	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.

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)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Glucose Glucose	25800	N/A	N/A	N/A	N/A

Irritation/Corrosion

Conclusion/Summary	: Not available.
<u>Sensitiser</u>	
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 to	<u>xicity (single exposure)</u>

SECTION 11: Toxicological information

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure	: Glucose 2-deoxyglucose Oligomycin	Not available. Not available. Not available.
Potential acute health ef	ffects	
Inhalation	: Glucose 2-deoxyglucose Oligomycin	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs. No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Skin contact	: Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Eye contact	: Glucose	Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
	2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards.
Symptoms related to the	<u>e physical, chemical and to</u>	oxicological characteristics
Inhalation	: Glucose 2-deoxyglucose Oligomycin	Adverse symptoms may include the following: respiratory tract irritation coughing No specific data. No specific data.
Ingestion	: Glucose 2-deoxyglucose Oligomycin	No specific data. No specific data. No specific data.
Skin contact	: Glucose 2-deoxyglucose Oligomycin	No specific data. No specific data. No specific data.
Eye contact	: Glucose	Adverse symptoms may include the following: irritation redness
	2-deoxyglucose Oligomycin	No specific data. No specific data.
Delaved and immediate	• •	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	
Conclusion/Summary	: Not available.	
Date of issue/Date of revision	: 30/04/2024 Date of prev	vious issue : No previous validation Version : 1 12/

SECTION 11: Toxicological information

General	: Glucose 2-deoxyglucose Oligomycin	Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation. No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. No known significant effects or critical hazards.
Reproductive toxicity	: Glucose 2-deoxyglucose Oligomycin	No known significant effects or critical hazards. No known significant effects or critical hazards. 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.

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	LogPow	BCF	Potential
Glucose Glucose	-3.24	-	Low

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 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 meth	nods
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	ΙΑΤΑ
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 : Not available. according to IMO instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

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.

SECTION 15: Regulatory information

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

No listed substance

Label	: Glucose 2-deoxyglucose Oligomycin	Not applicable. Not applicable. Not applicable.
Other EU regulations		

0

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

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

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

Full text of classifications [CLP/GHS]

Not applicable.

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Date of previous issue	: No previous validation
Version	: 1

Notice to reader

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