



Kit components

SDS-32-22 v1 Effective date: 18.12.2023

KIT CATALOGUE NUMBER	PRODUCT NAME	KIT SIZE, RXN
32-22-0000S	SoliSD™ Lyo-compatible Bsm DNA Polymerase Kit	100 rxn
COMPONENT CAT. NO.	COMPONENT NAME	QUANTITY, PCS
32-02-0800U	SoliSD™ Glycerol-Free Bsm DNA Polymerase (40 U/µI)	1
32-11-00250	25x SoliSD™ Supplement	1
05-73-00010	10x Isothermal Reaction Buffer	1
05-18-00005	100 mM MgSO₄	1
05-16-00005	10x GC-rich Enhancer	1

KIT CATALOGUE NUMBER	PRODUCT NAME	KIT SIZE, RXN
32-22-0250R	SoliSD™ Lyo-compatible Bsm DNA Polymerase Kit	250 rxn
COMPONENT CAT. NO.	COMPONENT NAME	QUANTITY, PCS
32-02-2000U	SoliSD™ Glycerol-Free Bsm DNA Polymerase (40 U/μl)	1
32-11-00250	25x SoliSD™ Supplement	1
05-73-00010	10x Isothermal Reaction Buffer	1
05-18-00005	100 mM MgSO4	1
05-16-00005	10x GC-rich Enhancer	1

KIT CATALOGUE NUMBER	PRODUCT NAME	KIT SIZE, RXN
32-22-1000R	SoliSD™ Lyo-compatible Bsm DNA Polymerase Kit	1000 rxn
COMPONENT CAT. NO.	COMPONENT NAME	QUANTITY, PCS
32-02-8000U	SoliSD™ Glycerol-Free Bsm DNA Polymerase (40 U/μl)	1
32-11-00250	25x SoliSD™ Supplement	4
05-73-00010	10x Isothermal Reaction Buffer	3
05-18-00005	100 mM MgSO₄	4
05-16-00005	10x GC-rich Enhancer	2

Safety Data Sheets for individual kit components are provided below.



Safety Data Sheet

In accordance with Regulation (EU) 2020/878

	Effective date: 12.12.2023 version 1
1. IDENTIFICATION OF THE SUBS	TANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product name	SoliSD™ Glycerol-Free Bsm DNA Polymerase (40 U/μl)
Catalog number	32-02-0800U, 32-02-2000U, 32-02-8000U
REACH registration number	Not applicable
ECHA registration number (EC-No)	Not applicable
Unique formula identifier (UFI) code	Not applicable
Recommended use of the chemical and uses advised against	This product is for Research Use Only. Not for consumer use.
Manufacturer/Supplier	Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia <u>info@solisbiodyne.com</u> Tel. +372 740 9960, Fax. +372 740 2079
Information in case of emergency	Solis BioDyne Tel. +372 740 9960 Office hours: 08 – 17, UTC+02:00 winter, UTC+03:00 summer EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794
2. HAZARDS IDENTIFICATION	
Classification of the substance or mixture	Classification according to Regulation (EC) No 1272/2008
Physical hazards	Not hazardous
Health hazards	Not hazardous
Environmental hazards	Not hazardous
Explosion hazards	Not hazardous
Additional hazards	This mixture does not contain any substances that are assessed to be a PBT or a vPvB The mixture does not contain any nanoforms
Label elements	Labelling according to Regulation (EC) No 1272/2008 [CLP]
Pictograms	None
Signal word	None
Hazard statements	Not applicable
EU Specific Hazard Statements	Not applicable
Precautionary Statements	
Prevention	Not applicable
Response	Not applicable
Storage	Routine storage at -28°C to -18°C until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14

Prevent product from entering drains. Do not allow material to contaminate

Other Hazards No endocrine disruptors information is available

ground water system

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous/Non-hazardous Components:

3.2 Mixtures

Disposal

Component			REACH reg No	Conc % (w/w)	Classification according to Regulation (EC) No 1272/2008 (CLP)	SCL, M-factor, ATE
H ₂ O	7732-18-5	231-791-2	-	<89	-	-
Trehalose	6138-23-4	202-739-6	-	<11	-	-
KCI	7447-40-7	231-211-8	-	<1	-	-
Tris-HCI	77-86-1	201-064-4	-	<1	-	-
SoliSD™ Bsm DNA Polvmerase	N/A	N/A	-	<0.1	-	-

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

4. FIRST-AID MEASURES	
Skin contact	Wash off with plenty of water. Immediate medical attention is not required.
Eye contact	Rinse opened eye immediately with plenty of water. Remove contact lenses if present. If irritation persists, get medical attention.
Inhalation	Move to fresh air. Consult a physician if necessary.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	No information available
Indication of any immediate medical attention and special treatment needed	None
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Dry chemical, CO ₂ , water spray or alcohol resistant foam.
Unsuitable extinguishing media	No information available
Fire/Explosion hazards	Not applicable
Protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES		
Personal precautions	Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.	
Personal protective equipment	Use personal protection recommended in Section 8.	
Environmental precautions	Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information.	
Methods and material for containment and cleaning up	Soak up with inert absorbent material	

7. HANDLING AND STORAGE	
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment
Conditions for safe storage, including any incompatibilities	Store at -20°C. Keep/store only in original container. Transport conditions in section 14
Specific uses	For Research Use Only

8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure Limits	No data available	
Engineering measures	Showers. Eyewash stations. Ensure adequate ventilation.	
Personal protective equipment:		
Respiratory protection	Not required. Use in well ventilated areas.	
Skin and body protection	Wear suitable protective clothing and gloves	
Eye and face protection	Wear safety glasses with side shields (or goggles)	
Protection of hands	Check protective gloves prior to each use for their proper condition. Material of gloves: Nitrile rubber, NBP	
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice	
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system	

9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical state	Liquid	
Color	Colorless	
Odor	Not defined	
pH value	7.0-9.0. Contact info@solisbiodyne.com for specific information	
Melting/freezing point	No data available	
Boiling point/ boiling range	No data available	
Flammability	No data available	
Lower and upper explosion limit	No data available	
Flash point	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Solubility	No data available	
Partition coefficient n-octanol/water	No data available	
Vapor pressure	No data available	
Density and/or relative density	No data available	
Relative vapor density	No data available	
Decomposition temperature	No data available	
Particle characteristics	No data available	
Information with regard to physical hazard classes	Not hazardous	
Other safety characteristics	No information available	

10. STABILITY AND REACTIVITY		
Reactivity	No data available	
Chemical stability	Stable under normal conditions	
Possibility of hazardous reactions	Hazardous reaction has not been reported	
Conditions to avoid	No information available	
Incompatible materials	Strong oxidizing agents, acids and alkali	
Hazardous decomposition products	No data available	

11. TOXICOLOGICAL INFORMATION			
Acute toxicicity There is no evidence available indicating acute toxicity			
Skin corrosion/irritation	May cause skin irritation		
Serious eye damage/irritation May cause eye irritation			

Sensitization:	
Respiratory	Material may be irritating to mucous membranes and upper respiratory tract
Skin	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting properties	No data available
Information on other hazards	No data available

12. ECOLOGICAL INFORMATION	Ν
Marine pollutant	No data available
Ecotoxicity	No data available. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Mobility	No data available
Persistence and degradability	No data available
Bioaccumulation	No data available
Endocrine disrupting properties	No data available
Othe adverse effects	No data available

13. DISPOSAL CONSIDERATIONS				
Waste handling and disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.			
Information regarding the disposal of the packaging	Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique			
Physical/chemical properties that may affect waste treatment options shall be specified	No special			
Sewage disposal	Do not empty into drains. Do not dispose of waste into sewer			
Special precautions for any recommended waste treatment	Consider local regulations and safe disposal procedures			

14. TRANSPORT INFORMATION	N			
UN number:				
UN proper shipping name	Not applicable			
Transport hazard class (es):				
Packing group	Not applicable			
Environmental hazards	Not hazardous goods			
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice			
Land transport ADR/RID (cross-bo	order):			
ADR/RID class	Not regulated			
Air transport ICAO-TI and IATA-D	GR:			
ICAO/IATA class	Not regulated			
Additional information	This substance is considered to be non-hazardous for transport			
Transport conditions	Transport at ambient temperature			

	Routine storage after transport -28°C to -18°C	
Maritime transport in bulk according to IMO instruments	Not regulated	

15. REGULATORY INFORMATION				
	Safety, health and environmental regulations/legislation specific for the substance or mixture	None		
	Substances of Very High Concern. EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV	None		
Safety, health and	Substance subject to authorisation per REACH Annex XIV	None		
environmental	Restricted substances under EC 1907/2006, Annex XVII	None		
regulations/legislation specific for the product	Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)	None		
	Regulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants)	None		
	EU - Substances Depleting the Ozone layer (1005/2009)	None		
	German Water hazard classes (Wassergefährdungsklassen)	None		
Components of animal origin	Regulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)	Gelatin		
Chemical safety assessment	No Chemical safety assessment has been carried out			

16. OTHER INFORMATIO	Ν		
Prepared by	Solis BioDyne		
Reason for revision	Not Applicable		
Revision number	1		
Revision date	12.12.2023		
-)	evision date. Contact info@solisbiodyne.com for latest revision.		
Last changes	Not Applicable		
This safety data sheet com	plies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878		

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of Solis BioDyne it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Solis BioDyne will not be liable for any damages resulting from handling or contact with the product.

Abbreviations:

ADR/RID – Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail. AGW – Time-weighted Average Concentration

EC – European Commission

CLP – Classification, Labelling and Packaging

IATA-DGR – International Air Transport Association-Dangerous Goods Regulations

ICAO-TI – International Civil Aviation Organization-Technical Instructions

IMO – International Maritime Organization

LD – Lethal Dose

NBP - N-Butyl-2-pyrrolidone

OEL – Occupational Exposure Limits PBT – Persistent Bioaccumulative Toxic PEL – Permissible Exposure Limits STEL – Short Term Exposure Limit STOT – Specific target organ toxicity TLV – Threshold Limit Value TWA – Time-Weighted Average





Safety Data Sheet

In accordance with Regulation (EU) 2020/878

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING				
Product name	25x SoliSD™ Supplement			
Catalog number	32-11-00250			
REACH registration number	Not applicable			
ECHA registration number (EC-No)	Not applicable			
Unique formula identifire (UFI) code	Not applicable			
Recommended use of the chemical and uses advised against	This product is for Research Use Only. Not for consumer use.			
Manufacturer/Supplier	Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia <u>info@solisbiodyne.com</u> Tel. +372 740 9960, Fax. +372 740 2079			
Information in case of emergency	Solis BioDyne Tel. +372 740 9960 Office hours: 08 – 17, UTC+02:00 winter, UTC+03:00 summer EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794			

Effective date: 11.08.2023 version 1

2. HAZARDS IDENTIFICATION				
Classificaton of the substance or mixture	Classification according to Regulation (EC) No 1272/2008			
Physical hazards	Not hazardous			
Health hazards	Not hazardous			
Environmental hazards	Not hazardous			
Explosion hazards	Not hazardous			
Additional hazards	This mixture does not contain any substances that are assessed to be a PBT or a vPvB The mixture does not contain any nanoforms			
Label elements	Labelling according to Regulation (EC) No 1272/2008 [CLP]			
Pictograms	None			
Signal word	None			
Hazard statements	Not applicable			
EU Specific Hazard Statements	Not applicable			
Precautionary Statements				
Prevention	Not applicable			
Response	Not applicable			
Storage	Routine storage at -28°C to -18°C until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14			
Disposal	Prevent product from entering drains. Do not allow material to contaminate ground water system			
Other Hazards	No endocrine disruptors information is available			

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous/Non-hazardous Components:

3.2 Mixtures

Hazardous/Non-	Hazardous/Non-hazardous Components:					
			REACH reg No	Conc % (w/w)	Classification according to Regulation (EC) No 1272/2008 (CLP)	SCL, M-factor, ATE
H₂O	7732-18-5	231-791-2	-	<93	-	-
SoliSD™ Supplement	N/A	N/A	-	<7	-	-

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

4. FIRST-AID MEASURES			
Skin contact	Wash off with plenty of water. Immediate medical attention is not required.		
Eye contact	Rinse opened eye immediately with plenty of water. Remove contact lenses if present. If irritation persists, get medical attention.		
Inhalation	Move to fresh air. Consult a physician if necessary.		
Ingestion	Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.		
Most important symptoms and effects, both acute and delayed	No information available		
Indication of any immediate medical attention and special treatment needed	None		
Notes to physician	Treat symptomatically		

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Dry chemical, CO ₂ , water spary or alcohol resistant foam.
Unsuitable extinguishing media	No information available
Fire/Explosion hazards	Not applicable
Protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	Use personal protection recommended in Section 8.
Environmental precautions	Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information.
Methods and material for containment and cleaning up	Soak up with inert absorbent material

7. HANDLING AND STORAGE	
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment
Conditions for safe storage, including any incompatibilities	Store at -20°C. Keep/store only in original container. Transport conditions in section 14
Specific uses	For Research Use Only

8. EXPOSURE CONTROLS/PERS	ONAL PROTECTION
Exposure Limits	Not applicable

Engineering measures	Showers. Eyewash stations. Ensure adequate ventilation.
Personal protective equipment:	
Respiratory protection	Not required. Use in well ventilated areas.
Skin and body protection	Wear suitable protective clothing and gloves
Eye and face protection	Wear safety glasses with side shields (or goggles)
Protection of hands	Check protective gloves prior to each use for their proper condition. Material of gloves: Nitrile rubber, NBP
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system

9. PHYSICAL AND CHEMICAL PROPERTIES	
Physical state	Liquid
Colour	Colorless
Odour	Not defined
pH value	7.0-9.0. Contact info@solisbiodyne.com for specific information
Melting/freezing point	No data available
Boiling point/ boiling range	No data available
Flammability	No data available
Lower and upper explosion limit	No data available
Flash point	No data available
Autoignition temperature	No data available
Decomposition temperature	No data available
Kinematic viscosity	No data available
Solubility	No data available
Partition coefficient n-octanol/water	No data available
Vapor pressure	No data available
Density and/or relative density	No data available
Relative vapor density	No data available
Decomposition temperature	No data available
Particle characteristics	No data available
Information with regard to physical hazard classes	Not hazardous
Other safety characteristics	No information available

10. STABILITY AND REACTIVITY	
Reactivity	No data available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	Hazardous reaction has not been reported
Conditions to avoid	No information available
Incompatible materials	Strong oxidizing agents, acids and alkali
Hazardous decomposition products	No data available

11. TOXICOLOGICAL INFORMATION	
Acute toxicicity	There is no evidence available indicating acute toxicity
Skin corrosion/irritation	May cause skin irritation
Serious eye damage/irritation	May cause eye irritation
Sensitization:	
Respiratory	Material may be irritating to mucous membranes and upper respiratory tract

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Skin	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting properties	No data available
Information on other hazards	No data available

12. ECOLOGICAL INFORMATION	
Marine pollutant	No data available
Ecotoxicity	No data available. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Mobility	No data available
Persistence and degradability	No data available
Bioaccumulation	No data available
Endocrine disrupting properties	No data available
Othe adverse effects	No data available

13. DISPOSAL CONSIDERATIONS	
Waste handling and disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.
Information regarding the disposal of the packaging	Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique
Physical/chemical properties that may affect waste treatment options shall be specified	No special
Sewage disposal	Do not empty into drains. Do not dispose of waste into sewer
Special precautions for any recommended waste treatment	Consider local regulations and safe disposal procedures

14. TRANSPORT INFORMATIO	N
UN number:	
UN proper shipping name	Not applicable
Transport hazard class (es):	
Packing group	Not applicable
Environmental hazards	Not hazardous goods
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice
Land transport ADR/RID (cross-b	order):
ADR/RID class	Not regulated
Air transport ICAO-TI and IATA-D	GR:
ICAO/IATA class	Not regulated
Additional information	This substance is considered to be non-hazardous for transport
Transport conditions	Transport at ambient temperature Routine storage after transport -28°C to -18°C

Maritime transport in bulk according to IMO instruments Not regulated	to IMO instruments
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nd environmental regulations/legislation substance or mixture /ery High Concern. EU - REACH rticle 59(1) - Candidate List of Substances ex XIV ect to authorisation per REACH Annex XIV ances under EC 1907/2006, Annex XVII	None None None None
ticle 59(1) - Candidate List of Substances ex XIV ect to authorisation per REACH Annex XIV ances under EC 1907/2006, Annex XVII	None
ances under EC 1907/2006, Annex XVII	
•••••••••••••••••••••••••••••••••••••••	None
No 649/2012 (Rotterdam Convention - dangerous chemicals)	None
No2019/1021 (Stockholm Convention ic pollutants)	None
s Depleting the Ozone layer (1005/2009)	None
nazard classes ungsklassen)	None
Regulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)	
	is not intended for human consumption and lation (EC) No 1774/2002 (Animal by-

16. OTHER INFORMATIO	N
Prepared by	Solis BioDyne / Technology specialist
Reason for revision	Not Applicable
Revision number	1
Revision date	11.08.2023
SDS is valid 3 years from revision date. Contact info@solisbiodyne.com for latest revision.	

Last changes Not Applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of Solis BioDyne it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Solis BioDyne will not be liable for any damages resulting from handling or contact with the product.

Abbreviations:

ADR/RID – Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail. AGW – Time-weighted Average Concentration

EC – European Commission

CLP – Classification, Labelling and Packaging

IATA-DGR – International Air Transport Association-Dangerous Goods Regulations

ICAO-TI – International Civil Aviation Organization-Technical Instructions

IMO - International Maritime Organization

LD – Lethal Dose

NBP – N-Butyl-2-pyrrolidone

OEL – Occupational Exposure Limits

PBT – Persistent Bioaccumulative Toxic

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PEL – Permissible Exposure Limits STEL – Short Term Exposure Limit STOT – Specific target organ toxicity TLV – Threshold Limit Value TWA – Time-Weighted Average





Safety Data Sheet

In accordance with Regulation (EU) 2020/878

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING		
Product name	Isothermal Reaction Buffer, 10x	
Catalog number	05-73-00010	
REACH registration number	Not applicable	
ECHA registration number (EC-No)	Not applicable	
Unique formula identifire (UFI) code	Not applicable	
Recommended use of the chemical and uses advised against	This product is for Research Use Only. Not for consumer use.	
Manufacturer/Supplier	Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia <u>info@solisbiodyne.com</u> Tel. +372 740 9960, Fax. +372 740 2079	
Information in case of emergency	Solis BioDyne Tel. +372 740 9960 Office hours: 08 – 17, UTC+02:00 winter, UTC+03:00 summer EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794	

Effective date: 11.08.2023 version 1

2. HAZARDS IDENTIFICATION		
Classificaton of the substance or mixture	Classification according to Regulation (EC) No 1272/2008	
Physical hazards	Not hazardous	
Health hazards	Not hazardous	
Environmental hazards	Not hazardous	
Explosion hazards	Not hazardous	
Additional hazards	This mixture does not contain any substances that are assessed to be a PBT or a vPvB The mixture does not contain any nanoforms	
Label elements	Labelling according to Regulation (EC) No 1272/2008 [CLP]	
Pictograms	None	
Signal word	None	
Hazard statements	Not applicable	
EU Specific Hazard Statements	Not applicable	
Precautionary Statements		
Prevention	Not applicable	
Response	Not applicable	
Storage	Routine storage at -28°C to -18°C until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14	
Disposal	Prevent product from entering drains. Do not allow material to contaminate ground water system	
Other Hazards	No endocrine disruptors information is available	

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous/Non-hazardous Components:

3.2 Mixtures

SCL, M-factor, ATE ---

-

Hazardous/Non-hazardous Components:					
Component	CAS-No.	EC-No.	REACH reg No	Conc % (w/w)	Classification according to Regulation (EC) No 1272/2008 (CLP)
H ₂ O		231-791-2	-	<93	-
Tris-HCI	1	201-064-4	-	<2.5	-
(NH4)2SO4	7783-20-2	231-984-1	-	<2	-
KCI	7447-40-7	231-211-8	-	<2	-
Tween20	9005-64-5	500-018-3	-	<1	-

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

4. FIRST-AID MEASURES	
Skin contact	Wash off with plenty of water. Immediate medical attention is not required.
Eye contact	Rinse opened eye immediately with plenty of water. Remove contact lenses if present. If irritation persists, get medical attention.
Inhalation	Move to fresh air. Consult a physician if necessary.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	No information available
Indication of any immediate medical attention and special treatment needed	None
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Dry chemical, CO ₂ , water spary or alcohol resistant foam.
Unsuitable extinguishing media	No information available
Fire/Explosion hazards	Not applicable
Protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES		
Personal precautions	Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.	
Personal protective equipment	Use personal protection recommended in Section 8.	
Environmental precautions	Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information.	
Methods and material for containment and cleaning up	Soak up with inert absorbent material	

7. HANDLING AND STORAGE	
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment
Conditions for safe storage, including any incompatibilities	Store at -20°C. Keep/store only in original container. Transport conditions in section 14
Specific uses	For Research Use Only

8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
Exposure Limits	Not applicable	
Engineering measures	Showers. Eyewash stations. Ensure adequate ventilation.	
Personal protective equipment:		
Respiratory protection	Not required. Use in well ventilated areas.	
Skin and body protection	Wear suitable protective clothing and gloves	
Eye and face protection	Wear safety glasses with side shields (or goggles)	
Protection of hands	Check protective gloves prior to each use for their proper condition. Material of gloves: Nitrile rubber, NBP	
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice	
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system	

9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical state	Liquid	
Colour	Colorless	
Odour	Not defined	
pH value	7.0-9.0. Contact info@solisbiodyne.com for specific information	
Melting/freezing point	No data available	
Boiling point/ boiling range	No data available	
Flammability	No data available	
Lower and upper explosion limit	No data available	
Flash point	No data available	
Autoignition temperature	No data available	
Decomposition temperature	No data available	
Kinematic viscosity	No data available	
Solubility	No data available	
Partition coefficient n-octanol/water	No data available	
Vapor pressure	No data available	
Density and/or relative density	No data available	
Relative vapor density	No data available	
Decomposition temperature	No data available	
Particle characteristics	No data available	
Information with regard to physical hazard classes	Not hazardous	
Other safety characteristics	No information available	

10. STABILITY AND REACTIVITY	
Reactivity	No data available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	Hazardous reaction has not been reported
Conditions to avoid	No information available
Incompatible materials	Strong oxidizing agents, acids and alkali
Hazardous decomposition products	No data available

11. TOXICOLOGICAL INFORMATION	
Acute toxicicity	There is no evidence available indicating acute toxicity
Skin corrosion/irritation	May cause skin irritation
Serious eye damage/irritation	May cause eye irritation
Sensitization:	

Isothermal Reaction Buffer, 10x

SDS-05-73 v1

Respiratory	Material may be irritating to mucous membranes and upper respiratory tract
Skin	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting properties	No data available
Information on other hazards	No data available

12. ECOLOGICAL INFORMATION	N Construction of the second
Marine pollutant	No data available
Ecotoxicity	No data available. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Mobility	No data available
Persistence and degradability	No data available
Bioaccumulation	No data available
Endocrine disrupting properties	No data available
Othe adverse effects	No data available

13. DISPOSAL CONSIDERATIONS	
Waste handling and disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.
Information regarding the disposal of the packaging	Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique
Physical/chemical properties that may affect waste treatment options shall be specified	No special
Sewage disposal	Do not empty into drains. Do not dispose of waste into sewer
Special precautions for any recommended waste treatment	Consider local regulations and safe disposal procedures

14. TRANSPORT INFORMATIO	N
UN number:	
UN proper shipping name	Not applicable
Transport hazard class (es):	
Packing group	Not applicable
Environmental hazards	Not hazardous goods
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice
Land transport ADR/RID (cross-bo	order):
ADR/RID class	Not regulated
Air transport ICAO-TI and IATA-D	GR:
ICAO/IATA class	Not regulated
Additional information	This substance is considered to be non-hazardous for transport
Transport conditions	Transport at ambient temperature Routine storage after transport -28°C to -18°C

Maritime transport in bulk according	Not
to IMO instruments	INOL

	Safety, health and environmental regulations/legislation specific for the substance or mixture	None
	Substances of Very High Concern. EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV	None
Safety, health and environmetal	Substance subject to authorisation per REACH Annex XIV	None
regulations/legislation specific	Restricted substances under EC 1907/2006, Annex XVII	None
for the product	Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)	None
	Regulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants)	None
	EU - Substances Depleting the Ozone layer (1005/2009)	None
	German Water hazard classes (Wassergefährdungsklassen)	None
Components of animal origin	Regulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)	None
Chemical safety assessment	No Chemical safety assessment has been carried out	<u>.</u>

16. OTHER INFORMATIO	N
Prepared by	Solis BioDyne / Technology specialist
Reason for revision	Not Applicable
Revision number	1
Revision date	11.08.2023
SDS is valid 3 years from revision date. Contact info@solisbiodyne.com for latest revision.	

Last changes Not Applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of Solis BioDyne it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Solis BioDyne will not be liable for any damages resulting from handling or contact with the product.

Abbreviations:

ADR/RID – Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail. AGW – Time-weighted Average Concentration

EC – European Commission

CLP – Classification, Labelling and Packaging

IATA-DGR – International Air Transport Association-Dangerous Goods Regulations

ICAO-TI – International Civil Aviation Organization-Technical Instructions

IMO - International Maritime Organization

LD – Lethal Dose

NBP – N-Butyl-2-pyrrolidone

OEL – Occupational Exposure Limits

PBT – Persistent Bioaccumulative Toxic

PEL – Permissible Exposure Limits STEL – Short Term Exposure Limit STOT – Specific target organ toxicity TLV – Threshold Limit Value TWA – Time-Weighted Average





Safety Data Sheet

In accordance with Regulation (EU) 2020/878

	Effective date: 11.08.2023 version
1. IDENTIFICATION OF THE SUBS	STANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product name	100 mM MgSO₄
Catalog number	05-18-00005
REACH registration number	Not applicable
CAS number	7487-88-9
ECHA registration number (EC-No)	231-298-2
Unique formula identifire (UFI) code	Not applicable
Molecular Formula	H ₂ O ₄ S.Mg
Recommended use of the chemical and uses advised against	Laboratory Chemicals. Not for consumer use.
Manufacturer/Supplier	Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia <u>info@solisbiodyne.com</u> Tel. +372 740 9960, Fax. +372 740 2079
Information in case of emergency	Solis BioDyne Tel. +372 740 9960 Office hours: 08 – 17, UTC+02:00 winter, UTC+03:00 summer EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794
2. HAZARDS IDENTIFICATION	
Classificaton of the substance or mixture	Classification according to Regulation (EC) No 1272/2008
Physical hazards	Not hazardous
Health hazards	Not hazardous
Environmental hazards	Not hazardous
Explosion hazards	Not hazardous
Additional hazards	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. The mixture does not contain any nanoforms.
Label elements	Labelling according to Regulation (EC) No 1272/2008 [CLP]
Pictograms	None
Signal word	None
Hazard statements	Not applicable
EU Specific Hazard Statements	Not applicable
Precautionary Statements	
Prevention	Avoid breathing dust
Response	Not applicable
Storage	Routine storage at -28°C to -18°C until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14
Disposal	Prevent product from entering drains. Do not allow material to contaminate ground water system
Other Hazards	No endocrine disruptors information is available

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Effective date: 11.08.2023 version 1

3.1 Substances Hazardous/Non-hazardous Components: Synonyms: H₂O₄S.Mg, Magnesium sulphate Formula: H₂O₄S.Mg

Formula: H₂O₄S.Mg Molecular weight: 120.37 g/mol CAS-No.: 7487-88-9 EC-No.: 231-298-2

3.2 Mixtures

Hazardous/Non-hazardous Components:

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

4. FIRST-AID MEASURES	
Skin contact	Wash off with plenty of water. Immediate medical attention is not required.
Eye contact	Rinse opened eye immediately with plenty of water. Remove contact lenses if present. Obtain medical attention.
Inhalation	Move to fresh air. Consult a physician if necessary.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	Ingestion may provoke the following symptoms: Diarrhoea
Indication of any immediate medical attention and special treatment needed	None
Notes to physician	For specialist advice physicians should contact the Poisons Information Service.

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	The product is not flammable. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Unsuitable extinguishing media	None
Fire/Explosion hazards	Heating or fire can release toxic gas. Sulphur oxides
Protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

6. ACCIDENTAL RELEASE MEASURES	
Personal precautions	Avoid breathing dust.
Personal protective equipment	Use personal protection recommended in Section 8.
Environmental precautions	Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information.
Methods and material for containment and cleaning up	Use a suitable vacuum cleaner. After cleaning, flush away traces with water.

7. HANDLING AND STORAGE	
Precautions for safe handling	Avoid creating dust. Use only clean and dry utensils. Avoid inhalation, ingestion and contact with skin and eyes.
Conditions for safe storage, including any incompatibilities	Store at -20°C. Keep/store only in original container. Transport conditions in section 14
Specific uses	For Research Use Only

100 mM MgSO₄

8. EXPOSURE CONTROLS/PERSONAL PROTECTION	
Exposure Limits	Not applicable
Engineering measures	Showers. Eyewash stations. Ensure adequate ventilation.
Personal protective equipment:	
Respiratory protection	Effective dust mask.
Skin and body protection	Wear suitable protective clothing and gloves
Eye and face protection	Wear safety glasses
Protection of hands	not required under normal use. When handling hot material, use heat resistant gloves.
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system

9. PHYSICAL AND CHEMICAL PROPERTIES		
Physical state	Liquid	
Colour	Colorless	
Odour	Not defined	
pH value	7.0-9.0. Contact info@solisbiodyne.com for specific information	
Melting/freezing point	No data available	
Boiling point/ boiling range	No data available	
Flammability	No data available	
Lower and upper explosion limit	No data available	
Flash point	No data available	
Autoignition temperature	No data available	
Decomposition temperature	1124 °C	
Kinematic viscosity	No data available	
Solubility	No data available	
Partition coefficient n-octanol/water	No data available	
Vapor pressure	No data available	
Density and/or relative density	No data available	
Relative vapor density	No data available	
Decomposition temperature	No data available	
Particle characteristics	No data available	
Information with regard to physical hazard classes	Not hazardous	
Other safety characteristics	No information available	

10. STABILITY AND REACTIVITY	
Reactivity	Stable
Chemical stability	No decomposition if stored and applied as directed
Possibility of hazardous reactions	Hazardous reaction has not been reported
Conditions to avoid	No information available
Incompatible materials	Materials to avoid: humid air and water
Hazardous decomposition products	No decomposition if stored and applied as directed. Heating or fire can release toxic gas. Sulphur oxides

11. TOXICOLOGICAL INFORMATION	
Acute toxicicity	GHS criteria not met
Skin corrosion/irritation	No data available
Serious eye damage/irritation	No data available

100 mM MgSO₄

Sensitization:	
Respiratory	No data available
Skin	GHS criteria not met
Germ cell mutagenicity	Negative results
Carcinogenicity	No data available
Reproductive toxicicity	Negative results
STOT-single exposure	No critical effects
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting properties	No data available
Information on other hazards	No data available

12. ECOLOGICAL INFORMATION	
Marine pollutant	No data available
Ecotoxicity	No data available.
Mobility	No data available
Persistence and degradability	No data available
Bioaccumulation	No data available
Endocrine disrupting properties	No data available
Othe adverse effects	No data available

13. DISPOSAL CONSIDERATIONS	
Waste handling and disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.
Information regarding the disposal of the packaging	Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.
Physical/chemical properties that may affect waste treatment options shall be specified	No special
Sewage disposal	Do not empty into drains. Do not dispose of waste into sewer
Special precautions for any recommended waste treatment	Consider local regulations and safe disposal procedures

14. TRANSPORT INFORMATION	N
UN number:	
UN proper shipping name	Not applicable
Transport hazard class (es):	
Packing group	Not applicable
Environmental hazards	Not hazardous goods
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice
Land transport ADR/RID (cross-bo	order):
ADR/RID class	Not regulated
Air transport ICAO-TI and IATA-D	GR:
ICAO/IATA class	Not regulated
Additional information	This substance is considered to be non-hazardous for transport
Transport conditions	Transport at ambient temperature Routine storage after transport -28°C to -18°C

Maritime transport in bulk according to IMO instruments	Not regulated
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	Cofety, health and environmental regulations (I-violation	
	Safety, health and environmental regulations/legislation specific for the substance or mixture	None
	Substances of Very High Concern. EU - REACH (1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIV	None
Safety, health and environmetal	Substance subject to authorisation per REACH Annex XIV	None
regulations/legislation specific	Restricted substances under EC 1907/2006, Annex XVII	None
for the product	Regulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)	None
	Regulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants)	None
	EU - Substances Depleting the Ozone layer (1005/2009)	None
	German Water hazard classes (Wassergefährdungsklassen)	None
Components of animal origin	Regulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)	None
Chemical safety assessment	No Chemical safety assessment has been carried out	<u>.</u>

16. OTHER INFORMATIO	Ν
Prepared by	Solis BioDyne / Technology specialist
Reason for revision	Not Applicable
Revision number	1
Revision date	11.08.2023
SDS is valid 3 years from re	evision date. Contact info@solisbiodyne.com for latest revision.

Last changes Not Applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of Solis BioDyne it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. Solis BioDyne will not be liable for any damages resulting from handling or contact with the product.

Abbreviations:

ADR/RID – Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail. AGW – Time-weighted Average Concentration

EC – European Commission

CLP – Classification, Labelling and Packaging

IATA-DGR – International Air Transport Association-Dangerous Goods Regulations

ICAO-TI – International Civil Aviation Organization-Technical Instructions

IMO – International Maritime Organization

LD – Lethal Dose

NBP – N-Butyl-2-pyrrolidone

OEL – Occupational Exposure Limits

PBT – Persistent Bioaccumulative Toxic

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PEL – Permissible Exposure Limits STEL – Short Term Exposure Limit STOT – Specific target organ toxicity TLV – Threshold Limit Value TWA – Time-Weighted Average





Safety Data Sheet

In accordance with Regulation (EU) 2020/878

Revision date: 18.12.2023 version 4

1. IDENTIFICATION OF THE SUBS	STANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
Product name	10x GC-rich enhancer
Catalog number	05-16-0000S, 05-16-00005, 05-16-00010, 05-16-00050, 05-16-00200
REACH registration number	Not applicable
ECHA registration number (EC-No)	Not applicable
Unique formula identifier (UFI) code	Not applicable
Recommended use of the chemical and uses advised against	This product is for Research Use Only. Not for consumer use.
Manufacturer/Supplier	Solis BioDyne OÜ Teaduspargi 9, 50411 Tartu, Estonia <u>info@solisbiodyne.com</u> Tel. +372 740 9960, Fax. +372 740 2079
Information in case of emergency	Solis BioDyne Tel. +372 740 9960 EU Emergency Service Tel 112 Estonian Poison Center +372 794 3794

2. HAZARDS IDENTIFICATION	
Classification of the substance or mixture	Classification according to Regulation (EC) No 1272/2008
Physical hazards	Not hazardous
Health hazards	Not hazardous
Environmental hazards	Not hazardous
Explosion hazards	Not hazardous
Additional hazards	This mixture does not contain any substances that are assessed to be a PBT or a vPvB. The mixture does not contain any nanoforms
Label elements	Labelling according to Regulation (EC) No 1272/2008 [CLP]
Pictograms	None
Signal word	None
Hazard statements	Not applicable
EU Specific Hazard Statements	Not applicable
Precautionary Statements	
Prevention	Not applicable
Response	Not applicable
Storage	Routine storage at -28°C to -18°C until the end of shelf-life (Expiry Date marking on the package). Keep/store only in original/labeled container. Transport conditions in section 14
Disposal	Prevent product from entering drains. Do not allow material to contaminate ground water system
Other Hazards	No endocrine disruptors information is available

3. COMPOSITION/ INFORMATION ON INGREDIENTS

3.1 Substances

Hazardous/Non-hazardous Components:

3.2 Mixtures

Hazardous/Non-hazardous Components:

					Classification according to Regulation (EC) No 1272/2008 (CLP)		
	EC-No.	C-No. REACH reg No	Conc % (w/w)		Hazard class and category code (s)	Hazard statement code (s)	
GC-rich Enhancer	N/A	N/A	-	<59	-	-	-
H₂O	7732-18-5	231-791-2	-	<41	-	-	-

The product contains no substances which at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

There are no additional ingredients (incl nanoforms) present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment.

4. FIRST-AID MEASURES	
Skin contact	Wash off with plenty of water. Immediate medical attention is not required.
Eye contact	Rinse opened eye immediately with plenty of water. Remove contact lenses if present. If irritation persists, get medical attention.
Inhalation	Move to fresh air. Consult a physician if necessary.
Ingestion	Clean mouth with water and drink afterwards plenty of water. Consult a physician if necessary.
Most important symptoms and effects, both acute and delayed	No information available
Indication of any immediate medical attention and special treatment needed	None
Notes to physician	Treat symptomatically

5. FIRE-FIGHTING MEASURES	
Suitable extinguishing media	Dry chemical, CO ₂ , water spray or alcohol resistant foam.
Unsuitable extinguishing media	No information available
Fire/Explosion hazards	Not applicable
Protective equipment and precautions for fire-fighters	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes

6. ACCIDENTAL RELEASE MEASURES		
Personal precautions	Use personal protective equipment. Ensure adequate ventilation, especially in confined areas.	
Personal protective equipment	Use personal protection recommended in Section 8.	
Environmental precautions	Do not allow to enter surface/ sewers or ground water. Prevent further leakage or spillage if safe to do so. See section 12 for additional information.	
Methods and material for containment and cleaning up	Soak up with inert absorbent material	

7. HANDLING AND STORAGE	
Precautions for safe handling	Handle in accordance with good industrial hygiene and safety practice. Use personal protective equipment
Conditions for safe storage, including any incompatibilities	Store at -20°C. Keep/store only in original container. Transport conditions in section 14
Specific uses	For Research Use Only

10x GC-rich Enhancer

8. EXPOSURE CONTROLS/PER	SONAL PROTECTION		
Exposure Limits	Not applicable		
Engineering measures	Showers. Eyewash stations. Ensure adequate ventilation.		
Personal protective equipment:			
Respiratory protection	Not required. Use in well ventilated areas.		
Skin and body protection	Wear suitable protective clothing and gloves		
Eye and face protection	Wear safety glasses with side shields (or goggles)		
Protection of hands	Check protective gloves prior to each use for their proper condition. Material of gloves: Nitrile rubber, NBP		
Hygiene measures	Handle in accordance with good industrial hygiene and safety practice		
Environmental exposure controls	Prevent product from entering drains. Do not allow material to contaminate ground water system		

9. PHYSICAL AND CHEMICAL PROPERTIES			
Physical state	Liquid		
Color	Colorless		
Odor	Not defined		
pH value	7.0-9.0. Contact info@solisbiodyne.com for specific information		
Melting/freezing point	No data available		
Boiling point/ boiling range	No data available		
Flammability	No data available		
Lower and upper explosion limit	No data available		
Flash point	No data available		
Autoignition temperature	No data available		
Decomposition temperature	No data available		
Kinematic viscosity	No data available		
Solubility	No data available		
Partition coefficient n-octanol/water	No data available		
Vapor pressure	No data available		
Density and/or relative density	No data available		
Relative vapor density	No data available		
Decomposition temperature	No data available		
Particle characteristics	No data available		
Information with regard to physical hazard classes	Not hazardous		
Other safety characteristics	No information available		

10. STABILITY AND REACTIVITY	
Reactivity	No data available
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	Hazardous reaction has not been reported
Conditions to avoid	No information available
Incompatible materials	Strong oxidizing agents, acids and alkali
Hazardous decomposition products	No data available

11. TOXICOLOGICAL INFORMATION		
Acute toxicity	There is no evidence available indicating acute toxicity	
Skin corrosion/irritation	May cause skin irritation	
Serious eye damage/irritation	May cause eye irritation	
Sensitization:		

10x GC-rich Enhancer

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Respiratory	Material may be irritating to mucous membranes and upper respiratory tract
Skin	Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
Endocrine disrupting properties	No data available
Information on other hazards	No data available

12. ECOLOGICAL INFORMATION	
Marine pollutant	No data available
Ecotoxicity	No data available. Prevent product from entering drains. Do not allow material to contaminate ground water system.
Mobility	No data available
Persistence and degradability	No data available
Bioaccumulation	No data available
Endocrine disrupting properties	No data available
Othe adverse effects	No data available

13. DISPOSAL CONSIDERATIONS	
Waste handling and disposal	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.
Information regarding the disposal of the packaging	Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique
Physical/chemical properties that may affect waste treatment options shall be specified	No special
Sewage disposal	Do not empty into drains. Do not dispose of waste into sewer
Special precautions for any recommended waste treatment	Consider local regulations and safe disposal procedures

14. TRANSPORT INFORMATIO	N
UN number:	
UN proper shipping name	Not applicable
Transport hazard class (es):	
Packing group	Not applicable
Environmental hazards	Not hazardous goods
Special precautions for user	Handle in accordance with good industrial hygiene and safety practice
Land transport ADR/RID (cross-b	order):
ADR/RID class	Not regulated
Air transport ICAO-TI and IATA-D	GR:
ICAO/IATA class	Not regulated
Additional information	This substance is considered to be non-hazardous for transport
Transport conditions	Transport at ambient temperature Routine storage after transport -28°C to -18°C

Maritime transport in bulk according to IMO instruments	Not regulated
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export/import of dangerous chemicals)NomeRegulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants)NoneEU - Substances Depleting the Ozone layer (1005/2009)NoneGerman Water hazard classes (Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None	15. REGULATORY INFORMAT	ION	
Safety, health and environmental regulations/legislation specific for the product(1907/2006) - Article 59(1) - Candidate List of Substances for Eventual Inclusion in Annex XIVNoneSafety, health and environmental regulations/legislation specific for the productSubstance subject to authorization per REACH Annex XIVNoneSubstance subject to authorization per REACH Annex XVIISubstance subject to authorization per REACH Annex XVIINoneRestricted substances under EC 1907/2006, Annex XVIINoneRegulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)NoneRegulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants)NoneEU - Substances Depleting the Ozone layer (1005/2009)NoneGerman Water hazard classes (Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None	environmental		None
environmental regulations/legislation specific for the productRestricted substances under EC 1907/2006, Annex XVIINoneRegulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)NoneNoneRegulation (EU)No2019/1021 (Stockholm Convention persistent organic pollutants)NoneNoneEU - Substances Depleting the Ozone layer (1005/2009)NoneGerman Water hazard classes (Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None		(1907/2006) - Article 59(1) - Candidate List of Substances for Eventual	None
regulations/legislation specific for the productRestricted substances under EC 1907/2006, Annex XVIINoneRegulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)NoneNoneRegulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants)NoneNoneEU - Substances Depleting the Ozone layer (1005/2009)NoneGerman Water hazard classes (Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None		Substance subject to authorization per REACH Annex XIV	None
for the productRegulation (EC) No 649/2012 (Rotterdam Convention - export/import of dangerous chemicals)NoneRegulation(EU)No2019/1021 (Stockholm Convention persistent organic pollutants)NoneEU - Substances Depleting the Ozone layer (1005/2009)NoneGerman Water hazard classes (Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None		Restricted substances under EC 1907/2006, Annex XVII	None
Persistent organic pollutants)NoneEU - Substances Depleting the Ozone layer (1005/2009)NoneGerman Water hazard classes (Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None			None
German Water hazard classes (Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None			None
(Wassergefährdungsklassen)NoneRegulation (EC) No 1069/2009 of the European Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by- products Regulation)None		EU - Substances Depleting the Ozone layer (1005/2009)	None
Components of animal origin Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by-products Regulation)			None
Chemical safety assessment No Chemical safety assessment has been carried out	Components of animal origin	Parliament and of the Council of 21 October 2009 laying down health rules as regards animal by-products and derived products not intended for human consumption and repealing Regulation (EC) No 1774/2002 (Animal by-	None
	Chemical safety assessment	No Chemical safety assessment has been carried out	

16. OTHER INFORMATIO	N
Prepared by	Solis BioDyne / Technology specialist
Reason for revision	Product catalog numbers updated
Revision number	4
Revision date	18.12.2023
SDS is valid 3 years from re	evision date. Contact info@solisbiodyne.com for latest revision.

Last changes Product catalog numbers updated

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 and (EU) 2020/878 amending Annex II to Regulation (EC) No 1907/2006

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Abbreviations:

ADR/RID – Road Transport of Dangerous Material/International Carriage of Dangerous Goods by Rail. AGW – Time-weighted Average Concentration

EC – European Commission

CLP – Classification, Labelling and Packaging

IATA-DGR – International Air Transport Association-Dangerous Goods Regulations

ICAO-TI – International Civil Aviation Organization-Technical Instructions

IMO – International Maritime Organization

LD – Lethal Dose

NBP – N-Butyl-2-pyrrolidone

OEL – Occupational Exposure Limits

PBT – Persistent Bioaccumulative Toxic

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PEL – Permissible Exposure Limits STEL – Short Term Exposure Limit STOT – Specific target organ toxicity TLV – Threshold Limit Value TWA – Time-Weighted Average

