## Kit

Product name	Catalog No.	Quantity
PUREfrex <sup>®</sup> 2.1	PF213-0.25-EX	250 μL for reaction
	PF213-2ML-EX	2 mL for reaction
	PF213-10ML-EX	5x 2 mL for reaction
	PF213-50ML-EX	25x 2 mL for reaction

### Contents

Product name	Product No.
Solution I	PF213-11
Solution II	PF201-21
Solution III	PF201-3A1
DHFR DNA	PF001-D2
Cysteine	PF213-6
DTT	PF213-7
GSH	PF213-8



# SAFETY DATA SHEET

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Section 1: Identification	
Product identifier	
Product name:	Solution I
Product code:	PF213-11
Relevant identified uses of	the substance or mixture and uses advised against of the product:
	ch and development only.
Details of the supplier of the	e safety data sheet

Name:	GeneFrontier Corporation	
Address:	SHARP Kashiwa Building 4F, 273-1	
	Kashiwa, Kashiwa-shi, Chiba 277-0005,	
	Japan	
Telephone number:	+81-4-7137-6301	
Fax number:	+81-4-7132-7530	
e-mail address:	purefrex@genefrontier.com	
Emergency telephone number:	+81-4-7137-6301	

#### Section 2: Hazard(s) identification

#### GHS classification and label elements of the product

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200) Classification of the substance or mixture: Not classified to GHS classification.

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Label elements:

No GHS label element. No Signal word.

#### Section 3: Composition/information on ingredients

#### Mixture/Substance selection: Mixture

Ingredient name	CAS No.	Content (%)
Buffer	Trade secret	0.1 - 1
Mineral A	Trade secret	1 - 5
Mineral B	Trade secret	0.1 - 1
Mineral C	Trade secret	1 - 5
Mineral D	Trade secret	0.1 - 2
Nucleotide A	Trade secret	0.1 - 1
Nucleotide B	Trade secret	0.1 - 1

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

#### Section 4: First-aid measures

#### **Descriptions of first-aid measures**

IF INHALED	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair)	Wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
	in eye initiation persists. Get medical advice/attention.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel
	unwell.

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

Specific information on symptom and effect are unknown.

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

Information on indication of any immediate medical attention and special treatment needed is not available.

#### Section 5: Fire-fighting measures

#### Extinguishing media

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

#### Specific hazards arising from the substance or mixture

No information available

#### Advice for firefighters

#### Specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

### Section 6: Accidental release measures

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

Keep unauthorized personnel away. Wear proper protective equipment.

#### **Environmental precautions**

Prevent spills from entering sewers, watercourses, or low areas. Do not wash away into sewers or waterway.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

#### Section 7: Handling and storage

### Precautions for safe handling

### Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### Safety treatments:

Use personal protective equipment as required.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Storage

#### Conditions for safe storage:

Keep container tightly closed.

Store at temperatures not exceeding designated temperature. Storage temperature upper limit: -20 °C/ -4 °F

#### Container and packaging materials for safe handling:

No information available.

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

Adopted value Adopted value in ACGIH is not available. OSHA-PEL OSHA-PEL data is not available. NIOSH-REL NIOSH-REL data is not available.

#### Exposure controls

#### Appropriate engineering controls:

Eye wash station should be available. Washing facilities should be available.

#### Individual protection measures, such as personal protective equipment:

Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety goggles.
Skin and body protection	Wear protective clothing.

#### Section 9: Physical and chemical properties

#### Information on basic physical and chemical properties

	• •	
Physical state: Liquid		
Colour: Clear		
Odour: None		
Odour threshold data is not availab	le.	
Melting point/Freezing point data is	not available.	
Boiling point or initial boiling point d	ata is not available.	
Boiling range data is not available.		
Flammability (gases, liquids and so	lids): Non-flammable	
Lower and upper explosion limit/flam	mmability limit data is not available.	
Flash point data is not available.		
Auto-ignition temperature data is no	ot available.	
Decomposition temperature data is	not available.	
pH: 7-8		
Kinematic viscosity data is not available.		
Solubility	Solubility in water: Soluble	
	Solubility in solvent data is not available.	
n-Octanol/water partition coefficient	data is not available.	
Vapor pressure data is not available	Э.	
Density and/or relative density data	is not available.	
-		

Relative vapor density (Air=1) data is not available. Particle characteristics: Not applicable. Evaporation rate data is not available.

#### **Other information**

No information available.

#### Section 10: Stability and reactivity

#### Reactivity

Reactivity data is not available.

#### **Chemical stability**

Stable under normal storage/handling conditions (see Section 7).

#### Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### **Conditions to avoid**

Conditions to avoid data is not available.

#### Incompatible materials

Incompatible materials data is not available.

#### Hazardous decomposition products

Hazardous decomposition products data is not available.

### Section 11: Toxicological information Information on toxicological effects

Acute toxicity	
Acute toxicity (Oral)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Acute toxicity (Dermal)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Acute toxicity (Inhalation)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Irritant properties	
Skin corrosion/irritation	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Serious eye	Classification of the product is not possible (Insufficient data
damage/irritation	available or no data available).
	Data for components of the product is not available.
Sensitization	
Respiratory sensitization	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Skin sensitization	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Germ cell mutagenicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Carcinogenicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Reproductive toxicity	Classification of the product is not possible (Insufficient data
	available or no data available).
Chapter to reach to visity (CT	Data for components of the product is not available.
Specific target organ toxicity (ST	
STOT-single exposure	Classification of the product is not possible (Insufficient data
	available or no data available).
STOT repeated eveneuro	Data for components of the product is not available.
STOT-repeated exposure	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
	Data for components of the product is not available.
Aspiration hazard	Classification of the product is not possible (Insufficient data
	oracompation of the product is not possible (insumplent data

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available or no data available). Data for components of the product is not available.

#### Section 12: Ecological information

**Toxicity:** 

Aquatic toxicity

Classification of the product is not possible (Insufficient data available or no data available).

Data for components of the product is not available.

#### Persistence and degradability:

Persistence and degradability data is not available.

#### **Bioaccumulative potential:**

Bioaccumulative potential data is not available.

#### Mobility in soil:

Mobility in soil data is not available.

#### Other adverse effects:

Ozone depleting chemical data is not available.

#### Section 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

#### Waste treatment methods:

Dispose of contents/container in accordance with local/national regulation. Do not dump into sewers, on the ground or into any body of water.

#### Contaminated packing:

Dispose of container after using the contents completely.

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#### Section 14: Transport information

#### **UN number, UN CLASS**

UN No. or ID No. UN Proper Shipping Name Class or division (Transport hazard class) Packing group Not applicable. Not applicable. Not applicable. Not applicable.

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### **IATA Dangerous Goods Regulations**

Not applicable.

#### **Environmental hazards**

MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

#### Special precautions for user

Not applicable.

#### Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

#### Section 15: Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

#### U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory Buffer; Mineral B; Mineral D; Nucleotide A

#### Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

#### **California proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

#### Section 16: Other information

#### **GHS classification and labelling:**

Not classified/Classification not possible

#### **Reference Book:**

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 1.3.2022 and Commission delegated regulation (EU) 2021/849 (ATP17)) & US Hazard Communication Standard - 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.



# SAFETY DATA SHEET

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Section 1: Identification	
Product identifier	
Product name:	Solution II
Product code:	PF201-21
Relevant identified uses of Relevant identified uses of	the substance or mixture and uses advised against of the product:
This product is for resear	ch and development only.
Details of the supplier of the	e safety data sheet
Name:	GeneFrontier Corporation
Address:	SHARP Kashiwa Building 4F, 273-1
	Kashiwa, Kashiwa-shi, Chiba 277-0005,
	lanan

	Japan
Telephone number:	+81-4-7137-6301
Fax number:	+81-4-7132-7530
e-mail address:	purefrex@genefrontier.com
Emergency telephone number:	+81-4-7137-6301

#### Section 2: Hazard(s) identification

#### GHS classification and label elements of the product

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Classification of the substance or mixture: Not classified to GHS classification.

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Label elements:

No GHS label element. No Signal word.

#### Section 3: Composition/information on ingredients

#### Mixture/Substance selection: Mixture

Ingredient name	CAS No.	Content (%)
Buffer	Trade secret	0.1 - 1
Mineral F	Trade secret	0.1 - 2
Glycerin	56-81-5	25 - 30

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

#### Section 4: First-aid measures

#### **Descriptions of first-aid measures**

IF INHALED	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair)	Wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel
	unwell.

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

Specific information on symptom and effect are unknown.

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

Information on indication of any immediate medical attention and special treatment needed is not available.

Section 5: Fire-fighting measures	Section	5:	Fire-fighting	ng measures
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#### **Extinguishing media**

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

#### Specific hazards arising from the substance or mixture

No information available

#### Advice for firefighters

#### Specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

#### Section 6: Accidental release measures

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

Keep unauthorized personnel away. Wear proper protective equipment.

#### **Environmental precautions**

Prevent spills from entering sewers, watercourses, or low areas. Do not wash away into sewers or waterway.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

#### Section 7: Handling and storage

#### Precautions for safe handling

#### **Preventive measures:**

Avoid contact with skin. Avoid contact with eyes.

#### Safety treatments:

Use personal protective equipment as required.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Storage

#### Conditions for safe storage:

Keep container tightly closed.

Store at temperatures not exceeding designated temperature.

Storage temperature upper limit: -20 °C/ -4 °F

#### Container and packaging materials for safe handling:

No information available.

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

Adopted value Adopted value in ACGIH is not available. OSHA-PEL (Glycerin)

TWA: 5 mg/m<sup>3</sup> (Respirable fraction) TWA: 15 mg/m<sup>3</sup> (Total dust)

NIOSH-REL (Glycerin)

See Appendix D

#### **Exposure controls**

#### Appropriate engineering controls:

Eye wash station should be available. Washing facilities should be available.

#### Individual protection measures, such as personal protective equipment:

Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant
	rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety
	goggles.
Skin and body protection	Wear protective clothing.

### Section 9: Physical and chemical properties

#### Information on basic physical and chemical properties

Physical state: Liquid	
Colour: Clear	
Odour: None	
Odour threshold data is not available.	
Melting point/Freezing point data is no	t available.
Boiling point or initial boiling point data	is not available.
Boiling range data is not available.	
Flammability (gases, liquids and solids	s): Non-flammable
Lower and upper explosion limit/flamm	ability limit data is not available.
Flash point data is not available.	
Auto-ignition temperature data is not a	vailable.
Decomposition temperature data is no	t available.
pH: 7-8	
Kinematic viscosity data is not availab	le.
Solubility	Solubility in water: Soluble
	Solubility in solvent data is not available.
n-Octanol/water partition coefficient da	ita is not available.
Vapor pressure data is not available.	

Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. Particle characteristics: Not applicable. Evaporation rate data is not available.

#### Other information

No information available.

#### Section 10: Stability and reactivity

#### Reactivity

Reactivity data is not available.

#### **Chemical stability**

Stable under normal storage/handling conditions (see Section 7).

#### Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### **Conditions to avoid**

Conditions to avoid data is not available.

#### Incompatible materials

Incompatible materials data is not available.

#### Hazardous decomposition products

Hazardous decomposition products data is not available.

### Section 11: Toxicological information Information on toxicological effects

Acute toxicity	
Acute toxicity (Oral)	Classification of the product is not possible (Insufficient data available or no data available).
Acute toxicity (Dermal)	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).
Acute toxicity (Inhalation)	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Irritant properties	
Skin corrosion/irritation	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Serious eye	Classification of the product is not possible (Insufficient data
damage/irritation	available or no data available).
	Data for components of the product is not available.
Sensitization	
Respiratory sensitization	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Skin sensitization	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Germ cell mutagenicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Carcinogenicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Reproductive toxicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Specific target organ toxicity (ST	
STOT-single exposure	Classification of the product is not possible (Insufficient data
e e e e augue e prese	available or no data available).
	Data for components of the product is not available.
STOT-repeated exposure	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.

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Aspiration hazard Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.

Section 12: Ecological info	ormation	
Toxicity:		
Aquatic toxicity	Classification of	the product is not possible (Insufficient data
	available or no c	lata available).
	Data for compor	nents of the product is not available.
Water solubility	Mineral F	256 g/100 ml (20°C) (ICSC, 2006)
	Glycerin	miscible (ICSC, 2006)

#### Persistence and degradability:

Persistence and degradability data is not available.

#### **Bioaccumulative potential:**

(Glycerin) log Pow=-1.76 (ICSC, 2006)

#### Mobility in soil:

Mobility in soil data is not available.

#### Other adverse effects:

Ozone depleting chemical data is not available.

#### Section 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

#### Waste treatment methods:

Dispose of contents/container in accordance with local/national regulation. Do not dump into sewers, on the ground or into any body of water.

#### Contaminated packing:

Dispose of container after using the contents completely.

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#### Section 14: Transport information

#### **UN number, UN CLASS**

UN No. or ID No. UN Proper Shipping Name Class or division (Transport hazard class) Packing group Not applicable. Not applicable. Not applicable. Not applicable.

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### IATA Dangerous Goods Regulations

Not applicable.

#### **Environmental hazards**

MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

#### Special precautions for user

Not applicable.

#### Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

#### Section 15: Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

#### U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory Buffer; Mineral F; Glycerin

#### Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

#### **California proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

#### Section 16: Other information

#### **GHS classification and labelling:**

Not classified/Classification not possible

#### **Reference Book:**

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 1.3.2022 and Commission delegated regulation (EU) 2021/849 (ATP17)) & US Hazard Communication Standard - 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.



# SAFETY DATA SHEET

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Section 1: Identification	
Product identifier	
Product name:	Solution III
Product code:	PF201-3A1
Relevant identified uses of the Relevant identified uses of th	substance or mixture and uses advised against ne product:
This product is for research a	and development only.
Details of the supplier of the sa	fety data sheet
Name:	GeneFrontier Corporation
Address:	SHARP Kashiwa Building 4F, 273-1
	Kashiwa, Kashiwa-shi, Chiba 277-0005,
	Japan
Telephone number:	+81-4-7137-6301
Fax number:	+81-4-7132-7530
e-mail address:	purefrex@genefrontier.com

#### Section 2: Hazard(s) identification

**Emergency telephone number:** 

#### GHS classification and label elements of the product

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Classification of the substance or mixture: Not classified to GHS classification.

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Label elements:

No GHS label element. No Signal word.

+81-4-7137-6301

#### Section 3: Composition/information on ingredients

#### Mixture/Substance selection: Mixture

Ingredient name	CAS No.	Content (%)
Buffer	Trade secret	0.1 - 1
Mineral B	Trade secret	0.1 - 1
Mineral F	Trade secret	0.1 - 2

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

#### Section 4: First-aid measures

#### **Descriptions of first-aid measures**

IF INHALED	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair)	Wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel
	unwell.

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

Specific information on symptom and effect are unknown.

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

Information on indication of any immediate medical attention and special treatment needed is not available.

Section 5: Fire-fighting measures	Section	5:	Fire-fighting	ng measures
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#### **Extinguishing media**

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

#### Specific hazards arising from the substance or mixture

No information available

#### Advice for firefighters

#### Specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

#### Section 6: Accidental release measures

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

Keep unauthorized personnel away. Wear proper protective equipment.

#### **Environmental precautions**

Prevent spills from entering sewers, watercourses, or low areas. Do not wash away into sewers or waterway.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

#### Section 7: Handling and storage

#### Precautions for safe handling

#### **Preventive measures:**

Avoid contact with skin. Avoid contact with eyes.

#### Safety treatments:

Use personal protective equipment as required.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Storage

#### Conditions for safe storage:

Keep container tightly closed.

Store at temperatures not exceeding designated temperature. Storage temperature upper limit: -70 °C/ -94 °F

#### Container and packaging materials for safe handling:

No information available.

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

Adopted value Adopted value in ACGIH is not available. OSHA-PEL OSHA-PEL data is not available. NIOSH-REL NIOSH-REL data is not available.

#### Exposure controls

#### Appropriate engineering controls:

Eye wash station should be available. Washing facilities should be available.

#### Individual protection measures, such as personal protective equipment:

Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety
Skin and body protection	goggles. Wear protective clothing.

#### **Section 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Physical state: Liquid
Colour: Clear
Odour: None
Odour threshold data is not available.
Melting point/Freezing point data is not available.
Boiling point or initial boiling point data is not available.
Boiling range data is not available.
Flammability (gases, liquids and solids): Non-flammable
Lower and upper explosion limit/flammability limit data is not available.
Flash point data is not available.
Auto-ignition temperature data is not available.
Decomposition temperature data is not available.
рН: 7-8
Kinematic viscosity data is not available.
Solubility Solubility in water: Soluble
Solubility in solvent data is not available.
n-Octanol/water partition coefficient data is not available.
Vapor pressure data is not available.

Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. Particle characteristics: Not applicable. Evaporation rate data is not available.

#### Other information

No information available.

#### Section 10: Stability and reactivity

#### Reactivity

Reactivity data is not available.

#### **Chemical stability**

Stable under normal storage/handling conditions (see Section 7).

#### Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### **Conditions to avoid**

Conditions to avoid data is not available.

#### Incompatible materials

Incompatible materials data is not available.

#### Hazardous decomposition products

Hazardous decomposition products data is not available.

## Section 11: Toxicological information Information on toxicological effects

Acute toxicity	
Acute toxicity (Oral)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Acute toxicity (Dermal)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Acute toxicity (Inhalation)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Irritant properties	
Skin corrosion/irritation	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Serious eye	Classification of the product is not possible (Insufficient data
damage/irritation	available or no data available).
	Data for components of the product is not available.
Sensitization	
Respiratory sensitization	Classification of the product is not possible (Insufficient data
	available or no data available).
Skin sensitization	Data for components of the product is not available.
Skin sensilization	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Germ cell mutagenicity	Classification of the product is not possible (Insufficient data
Genni cen mutagenicity	available or no data available).
	Data for components of the product is not available.
Carcinogenicity	Classification of the product is not possible (Insufficient data
Carolinogeniony	available or no data available).
	Data for components of the product is not available.
Reproductive toxicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Specific target organ toxicity (ST	
STOT-single exposure	Classification of the product is not possible (Insufficient data
2	available or no data available).
	Data for components of the product is not available.
STOT-repeated exposure	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Aspiration hazard	Classification of the product is not possible (Insufficient data

available or no data available). Data for components of the product is not available.

Section 12: Ecological infe	ormation	
Toxicity:		
Aquatic toxicity	Classification of available or no c	the product is not possible (Insufficient data lata available).
	Data for compor	nents of the product is not available.
Water solubility	Mineral F	256 g/100 ml (20°C) (ICSC, 2006)

#### Persistence and degradability:

Persistence and degradability data is not available.

#### **Bioaccumulative potential:**

Bioaccumulative potential data is not available.

#### Mobility in soil:

Mobility in soil data is not available.

#### Other adverse effects:

Ozone depleting chemical data is not available.

#### Section 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

#### Waste treatment methods:

Dispose of contents/container in accordance with local/national regulation. Do not dump into sewers, on the ground or into any body of water.

#### Contaminated packing:

Dispose of container after using the contents completely.

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#### Section 14: Transport information

#### **UN number, UN CLASS**

UN No. or ID No. UN Proper Shipping Name Class or division (Transport hazard class) Packing group Not applicable. Not applicable. Not applicable. Not applicable.

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### **IATA Dangerous Goods Regulations**

Not applicable.

#### **Environmental hazards**

MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

#### Special precautions for user

Not applicable.

#### Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

#### Section 15: Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

#### U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory Buffer; Mineral B; Mineral F

#### Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

#### **California proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

#### Section 16: Other information

#### **GHS classification and labelling:**

Not classified/Classification not possible

#### **Reference Book:**

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 1.3.2022 and Commission delegated regulation (EU) 2021/849 (ATP17)) & US Hazard Communication Standard - 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.



# SAFETY DATA SHEET

Page 1 of 9 Revision date: Dec 1st, 2023 PF001-D2 (US) Version 2

Section 1: Identification	
Product identifier	
Product name:	DHFR DNA
Product code:	PF001-D2
Relevant identified uses of the Relevant identified uses of t	e substance or mixture and uses advised against he product:
This product is for research	and development only.
Details of the supplier of the s	afety data sheet
Name:	GeneFrontier Corporation
Address:	SHARP Kashiwa Building 4F, 273-1
	Kashiwa, Kashiwa-shi, Chiba 277-0005,
	Japan
Telephone number:	+81-4-7137-6301
Fax number:	+81-4-7132-7530
e-mail address:	purefrex@genefrontier.com

#### Section 2: Hazard(s) identification

**Emergency telephone number:** 

#### GHS classification and label elements of the product

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Classification of the substance or mixture: Not classified to GHS classification.

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Label elements:

No GHS label element. No Signal word.

+81-4-7137-6301

#### Section 3: Composition/information on ingredients

#### Mixture/Substance selection: Mixture

Ingredient name	CAS No.	Content (%)
DNA	-	< 0.1

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

#### Section 4: First-aid measures

#### **Descriptions of first-aid measures**

IF INHALED	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair)	Wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Specific information on symptom and effect are unknown.

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

Information on indication of any immediate medical attention and special treatment needed is not available.

#### Section 5: Fire-fighting measures

#### Extinguishing media

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

#### Specific hazards arising from the substance or mixture

No information available

#### Advice for firefighters

#### Specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

#### Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

#### Section 6: Accidental release measures

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

Keep unauthorized personnel away. Wear proper protective equipment.

#### **Environmental precautions**

Prevent spills from entering sewers, watercourses, or low areas. Do not wash away into sewers or waterway.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

#### Section 7: Handling and storage

#### Precautions for safe handling

#### **Preventive measures:**

Avoid contact with skin. Avoid contact with eyes.

#### Safety treatments:

Use personal protective equipment as required.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Storage

#### Conditions for safe storage:

Keep container tightly closed.

Store at temperatures not exceeding designated temperature.

Storage temperature upper limit: -20 °C/ -4 °F

#### Container and packaging materials for safe handling:

No information available.

#### Section 8: Exposure controls/personal protection

#### **Control parameters**

Adopted value Adopted value in ACGIH is not available. OSHA-PEL OSHA-PEL data is not available. NIOSH-REL NIOSH-REL data is not available.

#### Exposure controls

#### Appropriate engineering controls:

Eye wash station should be available. Washing facilities should be available.

#### Individual protection measures, such as personal protective equipment:

Hand protection	Wear protective gloves. Recommended material(s): impermeable or chemical resistant
	rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety goggles.
Skin and body protection	Wear protective clothing.

#### **Section 9: Physical and chemical properties**

#### Information on basic physical and chemical properties

Physical state: Liquid	
Colour: Clear	
Odour: None	
Odour threshold data is not available.	
Melting point/Freezing point data is not available	ailable.
Boiling point or initial boiling point data is r	not available.
Boiling range data is not available.	
Flammability (gases, liquids and solids): N	Ion-flammable
Lower and upper explosion limit/flammabil	ity limit data is not available.
Flash point data is not available.	
Auto-ignition temperature data is not available	able.
Decomposition temperature data is not available	ailable.
pH: 7-8	
Kinematic viscosity data is not available.	
Solubility So	lubility in water: Soluble
So	lubility in solvent data is not available.
n-Octanol/water partition coefficient data is	s not available.
Vapor pressure data is not available.	

Density and/or relative density data is not available. Relative vapor density (Air=1) data is not available. Particle characteristics: Not applicable. Evaporation rate data is not available.

#### Other information

No information available.

#### Section 10: Stability and reactivity

#### Reactivity

Reactivity data is not available.

#### **Chemical stability**

Stable under normal storage/handling conditions (see Section 7).

#### Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### **Conditions to avoid**

Conditions to avoid data is not available.

#### Incompatible materials

Incompatible materials data is not available.

#### Hazardous decomposition products

Hazardous decomposition products data is not available.

### Section 11: Toxicological information Information on toxicological effects

Acute toxicity	
Acute toxicity (Oral)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Acute toxicity (Dermal)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Acute toxicity (Inhalation)	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Irritant properties	
Skin corrosion/irritation	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Serious eye	Classification of the product is not possible (Insufficient data
damage/irritation	available or no data available).
	Data for components of the product is not available.
Sensitization	
Respiratory sensitization	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Skin sensitization	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Germ cell mutagenicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Carcinogenicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Reproductive toxicity	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Specific target organ toxicity (ST	
STOT-single exposure	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
STOT-repeated exposure	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.
Asspiration bazard	Classification of the product is not possible (Insufficient data
Aspiration hazard	טומסטווטמווטר טר גווב פוטעעט וא ווטג פטפאטופ (וווטנוווטובווג ממנמ

available or no data available). Data for components of the product is not available.

#### Section 12: Ecological information

**Toxicity:** 

Aquatic toxicity

Classification of the product is not possible (Insufficient data available or no data available).

Data for components of the product is not available.

#### Persistence and degradability:

Persistence and degradability data is not available.

#### **Bioaccumulative potential:**

Bioaccumulative potential data is not available.

#### Mobility in soil:

Mobility in soil data is not available.

#### Other adverse effects:

Ozone depleting chemical data is not available.

#### Section 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

#### Waste treatment methods:

Dispose of contents/container in accordance with local/national regulation. Do not dump into sewers, on the ground or into any body of water.

#### Contaminated packing:

Dispose of container after using the contents completely.

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#### Section 14: Transport information

#### **UN number, UN CLASS**

UN No. or ID No. UN Proper Shipping Name Class or division (Transport hazard class) Packing group Not applicable. Not applicable. Not applicable. Not applicable.

## IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### **IATA Dangerous Goods Regulations**

Not applicable.

#### **Environmental hazards**

MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

#### Special precautions for user

Not applicable.

#### Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

#### Section 15: Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

#### U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory None

#### Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

#### **California proposition 65**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

#### Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

## Section 16: Other information

#### **GHS classification and labelling:**

Not classified/Classification not possible

## **Reference Book:**

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 1.3.2022 and Commission delegated regulation (EU) 2021/849 (ATP17)) & US Hazard Communication Standard - 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.





Page 1 of 8 Revision date: Dec 1st, 2023 PF213-6 (US) Version 3

Section 1: Identification	
Product identifier	
Product name:	Cysteine
Product code:	PF213-6
Relevant identified uses of t Relevant identified uses o	he substance or mixture and uses advised against f the product:
This product is for researc	ch and development only.
Details of the supplier of the	safety data sheet
Name:	GeneFrontier Corporation
Address:	SHARP Kashiwa Building 4F, 273-1
	Kashiwa, Kashiwa-shi, Chiba 277-0005,
	Japan
Telephone number:	+81-4-7137-6301
Fax number:	+81-4-7132-7530

## Section 2: Hazard(s) identification

**Emergency telephone number:** 

## GHS classification and label elements of the product

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Classification of the substance or mixture: Not classified to GHS classification.

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Label elements:

e-mail address:

No GHS label element. No Signal word.

purefrex@genefrontier.com

+81-4-7137-6301

## Section 3: Composition/information on ingredients

#### Mixture/Substance selection: Mixture

Ingredient name	CAS No.	Content (%)
L Cysteine	52-90-4	0.1 - 0.2

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

# Section 4: First-aid measures

#### **Descriptions of first-aid measures**

IF INHALED	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair)	Wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Specific information on symptom and effect are unknown.

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

Information on indication of any immediate medical attention and special treatment needed is not available.

#### Section 5: Fire-fighting measures

#### Extinguishing media

## Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

## Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

## Specific hazards arising from the substance or mixture

No information available

## Advice for firefighters

## Specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

## Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

# Section 6: Accidental release measures

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

Keep unauthorized personnel away. Wear proper protective equipment.

#### **Environmental precautions**

Prevent spills from entering sewers, watercourses, or low areas. Do not wash away into sewers or waterway.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

## Section 7: Handling and storage

# Precautions for safe handling

# Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### Safety treatments:

Use personal protective equipment as required.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Storage

#### Conditions for safe storage:

Keep container tightly closed.

Store at temperatures not exceeding designated temperature. Storage temperature upper limit: -20 °C/ -4 °F

## Container and packaging materials for safe handling:

No information available.

## Section 8: Exposure controls/personal protection

#### Control parameters

Adopted value Adopted value in ACGIH is not available. OSHA-PEL OSHA-PEL data is not available. NIOSH-REL NIOSH-REL data is not available.

# Exposure controls

## Appropriate engineering controls:

Eye wash station should be available.

Washing facilities should be available.

# Individual protection measures, such as personal protective equipment:

Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant
	rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety
	goggles.
Skin and body protection	Wear protective clothing.

# Section 9: Physical and chemical properties

# Information on basic physical and chemical properties

	• •
Physical state: Liquid	
Colour: Clear	
Odour: None	
Odour threshold data is not available.	
Melting point/Freezing point data is not	available.
Boiling point or initial boiling point data i	s not available.
Boiling range data is not available.	
Flammability (gases, liquids and solids)	: Non-flammable
Lower and upper explosion limit/flamma	ability limit data is not available.
Flash point data is not available.	
Auto-ignition temperature data is not av	ailable.
Decomposition temperature data is not	available.
pH: 7-8	
Kinematic viscosity data is not available	).
Solubility	Solubility in water: Soluble
	Solubility in solvent data is not available.
n-Octanol/water partition coefficient data	a is not available.
Vapor pressure data is not available.	
Density and/or relative density data is n	ot available.
Relative vapor density (Air=1) data is no	ot available.
Particle characteristics: Not applicable.	
Evaporation rate data is not available.	

# Other information

No information available.

## Section 10: Stability and reactivity

# Reactivity

Reactivity data is not available.

## **Chemical stability**

Stable under normal storage/handling conditions (see Section 7).

## Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

## **Conditions to avoid**

Conditions to avoid data is not available.

## Incompatible materials

Incompatible materials data is not available.

## Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11: Toxicological information	
Information on toxicological effects	

Acute toxicity	
Acute toxicity (Oral)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Acute toxicity (Dermal)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Acute toxicity (Inhalation)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Irritant properties	
Skin corrosion/irritation	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Serious eye	Classification of the product is not possible (Insufficient data
damage/irritation	available or no data available). Data for components of the product is not available.
Sensitization	
Respiratory sensitization	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.

Skin sensitization	Classification of the product is not possible (Insufficient data available or no data available).
Germ cell mutagenicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).
Carcinogenicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).
Reproductive toxicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).
Specific target organ toxicity (S	Data for components of the product is not available.
STOT-single exposure	Classification of the product is not possible (Insufficient data available or no data available).
STOT-repeated exposure	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.
Aspiration hazard	Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.

## Section 12: Ecological information

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	~ • • •	<b>`</b>	
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		· · · J	-

Aquatic toxicityClassification of the product is not possible (Insufficient data<br/>available or no data available).Data for components of the product is not available.

# Persistence and degradability:

Persistence and degradability data is not available.

# **Bioaccumulative potential:**

Bioaccumulative potential data is not available.

# Mobility in soil:

Mobility in soil data is not available.

# Other adverse effects:

Ozone depleting chemical data is not available.

#### Section 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

## Waste treatment methods:

Dispose of contents/container in accordance with local/national regulation. Do not dump into sewers, on the ground or into any body of water.

#### **Contaminated packing:**

Dispose of container after using the contents completely.

## Section 14: Transport information

#### UN number, UN CLASS

UN No. or ID No. UN Proper Shipping Name Class or division (Transport hazard class) Packing group Not applicable. Not applicable. Not applicable. Not applicable.

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

## IATA Dangerous Goods Regulations

Not applicable.

# **Environmental hazards**

MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

#### Special precautions for user

Not applicable.

# Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

#### Section 15: Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

## U.S. Toxic Substances Control Act (TSCA) Inventory

- Chemicals listed in TSCA Inventory
  - L Cysteine

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## Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

## California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

## Section 16: Other information

## **GHS** classification and labelling:

Not classified/Classification not possible

#### **Reference Book:**

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

## [General Disclaimer]

The GHS classification data given here is based on current EU official data (Consolidated version of the CLP Regulation published in 1.3.2022 and Commission delegated regulation (EU) 2021/849 (ATP17)) & US Hazard Communication Standard - 2012.

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.



# SAFETY DATA SHEET

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Section 1: Identification	
Product identifier	
Product name:	DTT
Product code:	PF213-7
Relevant identified uses of t	the substance or mixture and uses advised against
Relevant identified uses of	of the product:
This product is for resear	ch and development only.
Details of the supplier of the	e safety data sheet
Name:	GeneFrontier Corporation
Address:	SHARP Kashiwa Building 4F, 273-1
	Kashiwa, Kashiwa-shi, Chiba 277-0005,
	Japan
<b>Telephone number:</b> +81-4-7137-6301	
Telephone number:	+81-4-7137-6301
Telephone number: Fax number:	+81-4-7137-6301 +81-4-7132-7530
•	

## Section 2: Hazard(s) identification

## GHS classification and label elements of the product

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Classification of the substance or mixture: Not classified to GHS classification.

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Label elements:

No GHS label element. No Signal word.

## Section 3: Composition/information on ingredients

## Mixture/Substance selection: Mixture

Ingredient name	CAS No.	Content (%)
Dithiothreitol	3483-12-3	0.5 - 1.0

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

## Section 4: First-aid measures

#### **Descriptions of first-aid measures**

IF INHALED	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair)	Wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Specific information on symptom and effect are unknown.

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

Information on indication of any immediate medical attention and special treatment needed is not available.

#### Section 5: Fire-fighting measures

#### Extinguishing media

## Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

## Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

## Specific hazards arising from the substance or mixture

No information available

## Advice for firefighters

## Specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

## Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

# Section 6: Accidental release measures

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

Keep unauthorized personnel away. Wear proper protective equipment.

#### **Environmental precautions**

Prevent spills from entering sewers, watercourses, or low areas. Do not wash away into sewers or waterway.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

## Section 7: Handling and storage

# Precautions for safe handling

# Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### Safety treatments:

Use personal protective equipment as required.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Storage

#### Conditions for safe storage:

Keep container tightly closed.

Store at temperatures not exceeding designated temperature. Storage temperature upper limit: -20 °C/ -4 °F

## Container and packaging materials for safe handling:

No information available.

## Section 8: Exposure controls/personal protection

#### Control parameters

Adopted value Adopted value in ACGIH is not available. OSHA-PEL OSHA-PEL data is not available. NIOSH-REL NIOSH-REL data is not available.

## Exposure controls

## Appropriate engineering controls:

Eye wash station should be available.

Washing facilities should be available.

# Individual protection measures, such as personal protective equipment:

Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant
	rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety
	goggles.
Skin and body protection	Wear protective clothing.

# Section 9: Physical and chemical properties

# Information on basic physical and chemical properties

	• •	
Physical state: Liquid		
Colour: Clear		
Odour: None		
Odour threshold data is not available.		
Melting point/Freezing point data is not	available.	
Boiling point or initial boiling point data i	s not available.	
Boiling range data is not available.		
Flammability (gases, liquids and solids)	: Non-flammable	
Lower and upper explosion limit/flamma	ability limit data is not available.	
Flash point data is not available.		
Auto-ignition temperature data is not av	ailable.	
Decomposition temperature data is not	available.	
pH: 7-8		
Kinematic viscosity data is not available	).	
Solubility	Solubility in water: Soluble	
	Solubility in solvent data is not available.	
n-Octanol/water partition coefficient data	a is not available.	
Vapor pressure data is not available.		
Density and/or relative density data is not available.		
Relative vapor density (Air=1) data is no	ot available.	
Particle characteristics: Not applicable.		
Evaporation rate data is not available.		

# Other information

No information available.

# Section 10: Stability and reactivity

# Reactivity

Reactivity data is not available.

## **Chemical stability**

Stable under normal storage/handling conditions (see Section 7).

## Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

## **Conditions to avoid**

Conditions to avoid data is not available.

## Incompatible materials

Incompatible materials data is not available.

## Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11: Toxicological information	
Information on toxicological effects	

Acute toxicity	
Acute toxicity (Oral)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Acute toxicity (Dermal)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Acute toxicity (Inhalation)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Irritant properties	
Skin corrosion/irritation	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Serious eye	Classification of the product is not possible (Insufficient data
damage/irritation	available or no data available).
	Data for components of the product is not available.
Sensitization	
Respiratory sensitization	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.

Skin sensitization	Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.
Germ cell mutagenicity	Classification of the product is not possible (Insufficient data available or no data available).
Carcinogenicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).
Reproductive toxicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.
Specific target organ toxicity (ST	
STOT-single exposure	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
STOT-repeated exposure	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Aspiration hazard	Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.

## Section 12: Ecological information

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	<b>71</b>	1+1/	
Tox	าเ	ILV.	
		,	-

Aquatic toxicityClassification of the product is not possible (Insufficient data<br/>available or no data available).Data for components of the product is not available.

# Persistence and degradability:

Persistence and degradability data is not available.

# **Bioaccumulative potential:**

Bioaccumulative potential data is not available.

# Mobility in soil:

Mobility in soil data is not available.

# Other adverse effects:

Ozone depleting chemical data is not available.

#### Section 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

## Waste treatment methods:

Dispose of contents/container in accordance with local/national regulation. Do not dump into sewers, on the ground or into any body of water.

#### **Contaminated packing:**

Dispose of container after using the contents completely.

## Section 14: Transport information

## UN number, UN CLASS

UN No. or ID No. UN Proper Shipping Name Class or division (Transport hazard class) Packing group Not applicable. Not applicable. Not applicable. Not applicable.

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

## IATA Dangerous Goods Regulations

Not applicable.

# **Environmental hazards**

MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

#### Special precautions for user

Not applicable.

# Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

#### Section 15: Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

## U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory Dithiothreitol

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## Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

## California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

## Section 16: Other information

## **GHS** classification and labelling:

Not classified/Classification not possible

#### **Reference Book:**

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

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This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.



# SAFETY DATA SHEET

Page 1 of 8 Revision date: Dec 1st, 2023 PF213-8 (US) Version 3

Section 1: Identification	
Product identifier	
Product name:	GSH
Product code:	PF213-8
Relevant identified uses of Relevant identified uses of	the substance or mixture and uses advised against of the product:
This product is for resear	ch and development only.
Details of the supplier of the	e safety data sheet
Name:	GeneFrontier Corporation
Address:	SHARP Kashiwa Building 4F, 273-1
	Kachiwa Kachiwa chi Chiba 277 0005

Address:	SHARP Kashiwa Bulluling 4r, 273-1	
	Kashiwa, Kashiwa-shi, Chiba 277-0005,	
	Japan	
Telephone number:	+81-4-7137-6301	
Fax number:	+81-4-7132-7530	
e-mail address:	purefrex@genefrontier.com	
Emergency telephone number:	+81-4-7137-6301	

## Section 2: Hazard(s) identification

## GHS classification and label elements of the product

Classification according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Classification of the substance or mixture: Not classified to GHS classification.

Labelling according to Hazard Communication Standard - 2012 (29 CFR 1910.1200)

Label elements:

No GHS label element. No Signal word.

## Section 3: Composition/information on ingredients

## Mixture/Substance selection: Mixture

Ingredient name	CAS No.	Content (%)
L-Glutathione reduced	70-18-8	2 - 3

Note: The figures shown above are not the specifications of the product.

The specific chemical identity and/or exact percentage (concentration) of this composition has been withheld as a trade secret.

The components not described in this component table are not listed in Table 3 of Annex VI in EU CLP.

## Section 4: First-aid measures

#### **Descriptions of first-aid measures**

IF INHALED	Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN (or hair)	Wash with plenty of soap and water.
	If skin irritation occurs: Get medical advice/attention.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.
	If eye irritation persists: Get medical advice/attention.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.

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

Specific information on symptom and effect are unknown.

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

Information on indication of any immediate medical attention and special treatment needed is not available.

#### Section 5: Fire-fighting measures

#### Extinguishing media

## Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

## Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

## Specific hazards arising from the substance or mixture

No information available

## Advice for firefighters

## Specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

## Special protective equipment and precautions for fire-fighters:

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

# Section 6: Accidental release measures

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

Keep unauthorized personnel away. Wear proper protective equipment.

#### **Environmental precautions**

Prevent spills from entering sewers, watercourses, or low areas. Do not wash away into sewers or waterway.

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

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

## Section 7: Handling and storage

# Precautions for safe handling

# Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### Safety treatments:

Use personal protective equipment as required.

#### Advice on general occupational hygiene:

Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

#### Storage

#### Conditions for safe storage:

Keep container tightly closed.

Store at temperatures not exceeding designated temperature. Storage temperature upper limit: -20 °C/ -4 °F

## Container and packaging materials for safe handling:

No information available.

## Section 8: Exposure controls/personal protection

#### Control parameters

Adopted value Adopted value in ACGIH is not available. OSHA-PEL OSHA-PEL data is not available. NIOSH-REL NIOSH-REL data is not available.

# Exposure controls

## Appropriate engineering controls:

Eye wash station should be available.

Washing facilities should be available.

# Individual protection measures, such as personal protective equipment:

Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant
	rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety
	goggles.
Skin and body protection	Wear protective clothing.

# Section 9: Physical and chemical properties

# Information on basic physical and chemical properties

.,		
Physical state: Liquid		
Colour: Clear		
Odour: None		
Odour threshold data is not available.		
Melting point/Freezing point data is not available	Э.	
Boiling point or initial boiling point data is not av	ailable.	
Boiling range data is not available.		
Flammability (gases, liquids and solids): Non-fla	ımmable	
Lower and upper explosion limit/flammability lim	iit data is not available.	
Flash point data is not available.		
Auto-ignition temperature data is not available.		
Decomposition temperature data is not available	Э.	
рН: 7-8		
Kinematic viscosity data is not available.		
Solubility Solubility	y in water: Soluble	
Solubility	y in solvent data is not available.	
n-Octanol/water partition coefficient data is not a	available.	
Vapor pressure data is not available.		
Density and/or relative density data is not available.		
Relative vapor density (Air=1) data is not available	ble.	
Particle characteristics: Not applicable.		
Evaporation rate data is not available.		

# Other information

No information available.

# Section 10: Stability and reactivity

# Reactivity

Reactivity data is not available.

## **Chemical stability**

Stable under normal storage/handling conditions (see Section 7).

## Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

## **Conditions to avoid**

Conditions to avoid data is not available.

## Incompatible materials

Incompatible materials data is not available.

## Hazardous decomposition products

Hazardous decomposition products data is not available.

Section 11: Toxicological information	-
Information on toxicological effects	-

Acute toxicity	
Acute toxicity (Oral)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Acute toxicity (Dermal)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Acute toxicity (Inhalation)	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Irritant properties	
Skin corrosion/irritation	Classification of the product is not possible (Insufficient data available or no data available).
	Data for components of the product is not available.
Serious eye	Classification of the product is not possible (Insufficient data
damage/irritation	available or no data available).
	Data for components of the product is not available.
Sensitization	
Respiratory sensitization	Classification of the product is not possible (Insufficient data
	available or no data available).
	Data for components of the product is not available.

Skin sensitization	Classification of the product is not possible (Insufficient data available or no data available).			
Germ cell mutagenicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).			
Carcinogenicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).			
Reproductive toxicity	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available).			
Data for components of the product is not available. Specific target organ toxicity (STOT)				
STOT-single exposure	Classification of the product is not possible (Insufficient data available or no data available).			
STOT-repeated exposure	Data for components of the product is not available. Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.			
Aspiration hazard	Classification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.			

## Section 12: Ecological information

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Tox	10	141/	
100	I.	ILV	

Aquatic toxicityClassification of the product is not possible (Insufficient data<br/>available or no data available).Data for components of the product is not available.

# Persistence and degradability:

Persistence and degradability data is not available.

# **Bioaccumulative potential:**

Bioaccumulative potential data is not available.

# Mobility in soil:

Mobility in soil data is not available.

# Other adverse effects:

Ozone depleting chemical data is not available.

#### Section 13: Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

## Waste treatment methods:

Dispose of contents/container in accordance with local/national regulation. Do not dump into sewers, on the ground or into any body of water.

#### **Contaminated packing:**

Dispose of container after using the contents completely.

## Section 14: Transport information

## UN number, UN CLASS

UN No. or ID No. UN Proper Shipping Name Class or division (Transport hazard class) Packing group Not applicable. Not applicable. Not applicable. Not applicable.

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

## IATA Dangerous Goods Regulations

Not applicable.

# **Environmental hazards**

MARPOL Annex III - Prevention of pollution by harmful substances Marine pollutants (yes/no) : no

#### Special precautions for user

Not applicable.

# Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

#### Section 15: Regulatory information

# Safety, health and environmental regulations/legislation specific for the substance or mixture

## U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

L-Glutathione reduced

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## Superfund Amendments and Reauthorizations Act (SARA), Title III

This product contains no chemicals subjected to reporting levels established by SARA Title III, Section 313.

## California proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

## Section 16: Other information

## **GHS** classification and labelling:

Not classified/Classification not possible

#### **Reference Book:**

Globally Harmonized System of classification and labelling of chemicals, UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (62nd Edition) 2021 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information Hazard Communication Standard - 2012 (29 CFR 1910.1200) GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

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