# Kit

Product name	Catalog No.	Quantity
PUREfrex <sup>®</sup> 2.0	PF201-0.25-EX	250 μL for reaction
	PF201-2ML-EX	2 mL for reaction
	PF201-10ML-EX	5x 2 mL for reaction
	PF201-50ML-EX	25x 2 mL for reaction

## Contents

Contents		
Product name	Product No.	
Solution I	PF201-12	
Solution II	PF201-21	
Solution III	PF201-3A1	
DHFR DNA	PF001-D2	

# SAFETY DATA SHEET



Page 1 of 9 First issue: 21st Dec 2022 PF201-12 (EU) Version 1

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product name: Solution I Product code: PF201-12 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended uses: This product is for research and development only. Uses advised against: No information available. 1.3. Details of the supplier of the safety data sheet Name of manufacturer: **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

### **1.4. Emergency telephone number**

Telephone number:	+81-4-7137-6301
Opening hours:	9:15am – 5:55pm Monday - Friday

### **SECTION 2: Hazards identification**

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

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP] Not classified/Classification not possible.

#### 2.2. Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP] No GHS label element. No Signal word.

#### 2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB. The product does not contain any ingredients designated as Endocrine disrupting properties.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

#### Information on ingredients:

Ingredient name	CAS No.	Content (%)
Classification according to REGULATION (EC) No.1272/2008 [CLP]	EC No.	
Mineral A	СВІ	1-5
-	СВІ	
Mineral C	СВІ	1-5
-	СВІ	
Mineral D	СВІ	0.1-2
-	СВІ	
Mineral B	СВІ	0.1-1
-	СВІ	
Mineral E	СВІ	0.1-1
-	СВІ	
Buffer	СВІ	0.1-1
-	СВІ	
Nucleotide A	СВІ	0.1-1
-	СВІ	
Nucleotide B	CBI	0.1-1
-	СВІ	

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

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

#### Components contributing to the hazard:

The product does not contain any ingredients listed in REACH SVHC candidate list.

### **SECTION 4: First aid measures**

4.1. Description of first aid measures	
IF INHALED	Remove person to fresh air and keep comfortable for
	breathing. Call a POISON CENTER/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/doctor/ physician if you feel unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

**4.3. 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: Firefighting measures**

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

**5.2. Specific hazards arising from the substance or mixture** No information available.

#### 5.3. 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**

**6.1. Personal precautions, protective equipment and emergency procedures** Keep unauthorized personnel away. Wear proper protective equipment.

#### 6.2. Environmental precautions

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

#### 6.3. 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.

#### 6.4. Reference to other sections

Refer to SECTION 8 for personal protection. Refer to SECTION 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### Safety Measures:

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.

#### 7.2. Conditions for safe storage, including any incompatibilities Conditions for storage:

Keep container tightly closed. Store at temperatures not exceeding -20 °C.

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

No information available.

#### 7.3. Specific end use(s)

Information on Specific end use(s) is not available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Adopted value EU OEL value Adopted value in ACGIH is not available. EU OEL value is not available.

#### 8.2. Exposure controls

#### Appropriate engineering controls:

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

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

Respiratory protection	Respiratory protection not required.
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**

#### 9.1. 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. pH: 7-8 Kinematic viscosity data is not available. Solubility in water: Soluble Solubility 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.

#### 9.2. Other information

Other information is not available.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reactivity data is not available.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### 10.4. Conditions to avoid

Conditions to avoid data is not available.

#### **10.5. Incompatible materials**

Incompatible materials data is not available.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products data is not available.

## **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

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 possible (Insufficient data available or no data available). Data for components of the product is not available.Irritant properties Skin corrosion/irritationClassification of the product is not possible (Insufficient data available or no data available). Data for components of the product is not available.Irritant properties Data for components of the product is not available.Classification of the product is not available.Irritant properties Data for components of the product is not available.Data for components of the product is not available.Irritant properties Data for components of the product is not available.Data for components of the product is not available.
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Skin corrosion/irritation Classification of the product is not possible (Insufficient data available or no data available).
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 (STOT)
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.

#### 11.2. Information on other hazards

Endocrine disrupting properties is not available.

#### **SECTION 12: Ecological information**

#### 12.1. 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.

#### 12.2. Persistence and degradability

Persistence and degradability data is not available.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential data is not available.

#### 12.4. Mobility in soil

Mobility in soil data is not available.

#### 12.5. Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

#### 12.6. Endocrine disrupting properties

Endocrine disrupting properties is not available.

#### 12.7. 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

#### 13.1. 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

- 14.1. UN No. or ID No.
- 14.2. UN Proper Shipping Name
- 14.3. Class or division (Transport hazard class)
- 14.4. Packing group

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### IATA Dangerous Goods Regulations

Not applicable.

#### 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

Not applicable.

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

This product is not intended to be carried in bulk.

Not applicable. Not applicable. Not applicable. Not applicable.

#### **SECTION 15: Regulatory information**

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

The product does not contain any ingredients listed in REACH SVHC candidate list. Other information is not available.

#### Other regulatory information:

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this product.

#### **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 EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

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.

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)).

# SAFETY DATA SHEET



Page 1 of 9 Revision date: 1st Dec 2022 PF201-21 (EU) Version 2

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

#### SECTION 1: Identification of the substance/mixture and of the company/undertaking 1.1. Product identifier Product name: Solution II Product code: PF201-21 1.2. Relevant identified uses of the substance or mixture and uses advised against Recommended uses: This product is for research and development only. Uses advised against: No information available. 1.3. Details of the supplier of the safety data sheet Name of manufacturer: **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

### **1.4. Emergency telephone number**

Telephone number:	+81-4-7137-6301
Opening hours:	9:15am – 5:55pm Monday - Friday

#### **SECTION 2: Hazards identification**

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

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP] Not classified/Classification not possible.

#### 2.2. Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP] No GHS label element. No Signal word.

#### 2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB. The product does not contain any ingredients designated as Endocrine disrupting properties.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

#### Information on ingredients:

Ingredient name	CAS No.	Content (%)
Classification according to REGULATION (EC) No.1272/2008 [CLP]	EC No.	
Glycerin	56-81-5	25-30
-	200-289-5	
Mineral F	CBI	0.1-2
-	СВІ	
Buffer	CBI	0.1-1
-	СВІ	

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

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

#### Components contributing to the hazard:

The product does not contain any ingredients listed in REACH SVHC candidate list.

SECTION 4: First aid measures		
4.1. Description of first aid mea	asures	
IF INHALED	Remove person to fresh air and keep comfortable for	
	breathing. Call a POISON CENTER/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/doctor/ physician if	
	you feel unwell.	

# 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

# **4.3. 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: Firefighting measures

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

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

No information available.

#### 5.3. 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**

#### 6.1. Personal precautions, protective equipment and emergency procedures Keep unauthorized personnel away. Wear proper protective equipment.

#### 6.2. Environmental precautions

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

#### 6.3. 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.

#### 6.4. Reference to other sections

Refer to SECTION 8 for personal protection. Refer to SECTION 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### Safety Measures:

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.

#### 7.2. Conditions for safe storage, including any incompatibilities Conditions for storage:

Keep container tightly closed. Store at temperatures not exceeding -20 °C.

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

No information available.

#### 7.3. Specific end use(s)

Information on Specific end use(s) is not available.

#### 8.1. Control parameters

Adopted value EU OEL value Adopted value in ACGIH is not available. EU OEL value is not available.

#### 8.2. Exposure controls

#### Appropriate engineering controls:

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

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

Respiratory protection	Respiratory protection not required.
Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant
	rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety glasses with side-shields or chemical safety
Skin and body protection	Wear protective clothing.

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

#### 9.1. 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. pH: 7-8 Kinematic viscosity data is not available. Solubility in water: Soluble Solubility 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.

#### 9.2. Other information

Other information is not available.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reactivity data is not available.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### 10.4. Conditions to avoid

Conditions to avoid data is not available.

#### **10.5. Incompatible materials**

Incompatible materials data is not available.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products data is not available.

## **SECTION 11: Toxicological information**

#### 11.1. 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 (S	,
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.

#### 11.2. Information on other hazards

Endocrine disrupting properties is not available.

12.1. Toxicity		
Aquatic toxicity	Classification of the available or no data	product is not possible (Insufficient data available).
	Data for components	of the product is not available.
Water solubility	Mineral F	256 g/100 ml (20°C) (ICSC 2006)
	Glycerin	miscible (ICSC, 2006)

#### 12.2. Persistence and degradability

Persistence and degradability data is not available.

#### 12.3. Bioaccumulative potential

Glycerin

log Pow=-1.76 (ICSC, 2006)

#### 12.4. Mobility in soil

Mobility in soil data is not available.

#### 12.5. Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

#### 12.6. Endocrine disrupting properties

Endocrine disrupting properties is not available.

#### 12.7. 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

#### 13.1. 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

14.1. UN No. or ID No.

14.2. UN Proper Shipping Name

14.3. Class or division (Transport hazard class)

14.4. Packing group

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### IATA Dangerous Goods Regulations

Not applicable.

#### 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

Not applicable.

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

This product is not intended to be carried in bulk.

Not applicable. Not applicable. Not applicable. Not applicable.

#### **SECTION 15: Regulatory information**

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

The product does not contain any ingredients listed in REACH SVHC candidate list. Other information is not available.

#### Other regulatory information:

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this product.

#### **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 EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

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.

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)).

# SAFETY DATA SHEET



Page 1 of 9 First issue: 21st Jun 2024 PF201-3A1 (EU) Version 1

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

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

1.1. Product identifier	
Product name:	Solution III
Product code:	PF201-3A1

1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended uses:This product is for research and development only.Uses advised against:No information available.

#### 1.3. Details of the supplier of the safety data sheet

Name of manufacturer:	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

#### 1.4. Emergency telephone number

Telephone number:	+81-4-7137-6301
Opening hours:	9:15am – 5:55pm Monday - Friday

#### **SECTION 2: Hazards identification**

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

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP] Not classified/Classification not possible.

#### 2.2. Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP] No GHS label element. No Signal word.

#### 2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB. The product does not contain any ingredients designated as Endocrine disrupting properties.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

#### Information on ingredients:

Ingredient name	CAS No.	Content (%)
Classification according to REGULATION (EC) No.1272/2008 [CLP]	EC No.	
Mineral F	CBI	0.1-2
-	CBI	
Mineral B	CBI	0.1-1
-	CBI	
Buffer	CBI	0.1-1
-	СВІ	

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

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

#### Components contributing to the hazard:

The product does not contain any ingredients listed in REACH SVHC candidate list.

SECTION 4: First aid measures 4.1. Description of first aid measures		
	breathing. Call a POISON CENTER/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/doctor/ physician if	

you feel unwell.

# 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

# **4.3. 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: Firefighting measures

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

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

No information available.

#### 5.3. 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**

#### 6.1. Personal precautions, protective equipment and emergency procedures Keep unauthorized personnel away. Wear proper protective equipment.

#### 6.2. Environmental precautions

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

#### 6.3. 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.

#### 6.4. Reference to other sections

Refer to SECTION 8 for personal protection. Refer to SECTION 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### Safety Measures:

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.

#### 7.2. Conditions for safe storage, including any incompatibilities Conditions for storage:

Keep container tightly closed. Store at temperatures not exceeding -70 °C.

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

No information available.

#### 7.3. Specific end use(s)

Information on Specific end use(s) is not available.

SECTION 8: Exposure controls/personal protection	
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#### 8.1. Control parameters

Adopted value EU OEL value Adopted value in ACGIH is not available. EU OEL value is not available.

#### 8.2. Exposure controls

#### Appropriate engineering controls:

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

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

Respiratory protection	Respiratory protection not required.
Hand protection	Wear protective gloves.
	Recommended material(s): impermeable or chemical resistant
	rubber.
Eye protection	Wear safety glasses with side-shields or chemical safety glasses with side-shields or chemical safety
Skin and body protection	Wear protective clothing.

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

#### 9.1. 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. pH: 7-8 Kinematic viscosity data is not available. Solubility in water: Soluble Solubility 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.

#### 9.2. Other information

Other information is not available.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reactivity data is not available.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### 10.4. Conditions to avoid

Conditions to avoid data is not available.

#### **10.5. Incompatible materials**

Incompatible materials data is not available.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products data is not available.

## **SECTION 11: Toxicological information**

### 11.1. 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 (S	STOT)
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.
	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.
	,

#### 11.2. Information on other hazards

Endocrine disrupting properties is not available.

SECTION 12: Ecological information		
12.1. Toxicity		
Aquatic toxicity	Classification of the p available or no data a	product is not possible (Insufficient data vailable).
	Data for components	of the product is not available.
Water solubility	Mineral F	256 g/100 ml (20°C) (ICSC, 2006)

#### 12.2. Persistence and degradability

Persistence and degradability data is not available.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential data is not available.

#### 12.4. Mobility in soil

Mobility in soil data is not available.

#### 12.5. Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

#### **12.6. Endocrine disrupting properties**

Endocrine disrupting properties is not available.

#### 12.7. 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

#### 13.1. 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

14.1. UN No. or ID No.

14.2. UN Proper Shipping Name

14.3. Class or division (Transport hazard class)

14.4. Packing group

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### IATA Dangerous Goods Regulations

Not applicable.

#### 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

Not applicable.

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

This product is not intended to be carried in bulk.

Not applicable. Not applicable. Not applicable. Not applicable.

#### **SECTION 15: Regulatory information**

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

The product does not contain any ingredients listed in REACH SVHC candidate list. Other information is not available.

#### Other regulatory information:

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this product.

#### **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 EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

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.

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)).

# SAFETY DATA SHEET



Page 1 of 9 Revision date: 1st Dec 2022 PF001-D2 (EU) Version 2

according to Regulation (EC) No.1907/2006 (REACH), amended by COMMISSION REGULATION (EU) 2020/878

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

1.1. Product identifier	
Product name:	DHFR DNA
Product code:	PF001-D2

1.2. Relevant identified uses of the substance or mixture and uses advised againstRecommended uses:This product is for research and development only.Uses advised against:No information available.

#### 1.3. Details of the supplier of the safety data sheet

Name of manufacturer:	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

#### 1.4. Emergency telephone number

Telephone number:	+81-4-7137-6301
Opening hours:	9:15am – 5:55pm Monday - Friday

#### **SECTION 2: Hazards identification**

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

#### 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No.1272/2008 [CLP] Not classified/Classification not possible.

#### 2.2. Label elements

Labelling according to Regulation (EC) No.1272/2008 [CLP] No GHS label element. No Signal word.

#### 2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB. The product does not contain any ingredients designated as Endocrine disrupting properties.

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable.

#### 3.2. Mixtures

#### Information on ingredients:

Ingredient name	CAS No.	Content (%)
Classification according to REGULATION (EC) No.1272/2008 [CLP]	EC No.	
DNA	-	< 0.1
-	-	

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

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

#### Components contributing to the hazard:

The product does not contain any ingredients listed in REACH SVHC candidate list.

#### SECTION 4: First aid measures

4.1. Description of first aid measures	
IF INHALED	Remove person to fresh air and keep comfortable for
	breathing. Call a POISON CENTER/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/doctor/ physician if
	you feel unwell.

#### 4.2. Most important symptoms and effects, both acute and delayed

Specific information on symptom and effect are unknown.

#### 4.3. 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: Firefighting measures

#### 5.1. Extinguishing media

#### Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

#### Unsuitable extinguishing media:

Unsuitable extinguishing media data is not available.

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

No information available.

#### 5.3. 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**

#### 6.1. Personal precautions, protective equipment and emergency procedures Keep unauthorized personnel away. Wear proper protective equipment.

#### 6.2. Environmental precautions

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

#### 6.3. 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.

#### 6.4. Reference to other sections

Refer to SECTION 8 for personal protection. Refer to SECTION 13 for disposal information.

#### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

#### Preventive measures:

Avoid contact with skin. Avoid contact with eyes.

#### **Safety Measures:**

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.

#### 7.2. Conditions for safe storage, including any incompatibilities Conditions for storage:

Keep container tightly closed. Store at temperatures not exceeding -20 °C.

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

No information available.

#### 7.3. Specific end use(s)

Information on Specific end use(s) is not available.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. Control parameters

Adopted value EU OEL value Adopted value in ACGIH is not available. EU OEL value is not available.

#### 8.2. Exposure controls

#### Appropriate engineering controls:

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

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

Respiratory protection	Respiratory protection not required.
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**

#### 9.1. 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. pH: 7-8 Kinematic viscosity data is not available. Solubility in water: Soluble Solubility 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.

#### 9.2. Other information

Other information is not available.

#### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Reactivity data is not available.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions data is not available.

#### 10.4. Conditions to avoid

Conditions to avoid data is not available.

#### **10.5. Incompatible materials**

Incompatible materials data is not available.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products data is not available.

## **SECTION 11: Toxicological information**

## 11.1. 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).
<b>-</b>	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).
Carainaganiaitu	Data for components of the product is not available.
Carcinogenicity	Classification of the product is not possible (Insufficient data available or no data available).
	,
Depreductive toxicity	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).
Specific torget argen tovicity (	Data for components of the product is not available.
Specific target organ toxicity (S	
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.

#### 11.2. Information on other hazards

Endocrine disrupting properties is not available.

#### **SECTION 12: Ecological information**

#### 12.1. 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.

#### 12.2. Persistence and degradability

Persistence and degradability data is not available.

#### 12.3. Bioaccumulative potential

Bioaccumulative potential data is not available.

#### 12.4. Mobility in soil

Mobility in soil data is not available.

#### 12.5. Results of PBT and vPvB assessment

PBT and/or vPvB assessment data is not available.

#### 12.6. Endocrine disrupting properties

Endocrine disrupting properties is not available.

#### 12.7. 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

#### 13.1. 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

14.1. UN No. or ID No.

14.2. UN Proper Shipping Name

14.3. Class or division (Transport hazard class)

14.4. Packing group

# IMDG Code (International Maritime Dangerous Goods Regulations)

Not applicable.

#### IATA Dangerous Goods Regulations

Not applicable.

#### 14.5. Environmental hazards

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

#### 14.6. Special precautions for user

Not applicable.

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

This product is not intended to be carried in bulk.

Not applicable. Not applicable. Not applicable. Not applicable.

#### **SECTION 15: Regulatory information**

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

The product does not contain any ingredients listed in REACH SVHC candidate list. Other information is not available.

#### Other regulatory information:

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out for this product.

#### **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 EU REGULATION (EC) No. 1272/2008 (CLP), amended by COMMISSION REGULATION (EU) 2019/521 2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2022 TLVs and BEIs. (ACGIH) Supplier's data/information GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

#### [General Disclaimer]

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.

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)).