Kit

1 <1 €		
Product name	Catalog No.	Quantity
PUREfrex [®] 2.0	PF201-0.25-EX	250 μL for reaction
	PF201-0.25-5-EX	250x5 µL for reaction

Contents

Product name	Product No.
Solution I	PF201-11
Solution II	PF201-21
Solution III	PF-3A1
DHFR DNA	PF001-D1

SAFETY DATA SHEET



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SECTION 1: Identification of th	e substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name:	Solution I
Product code:	PF201-11
1.2. Relevant identified uses of	f 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	he 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 num	nber
Telephone number:	+81-4-7137-6301

9:15am - 5:55pm Monday - Friday

SECTION 2: Hazards identification

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

2.2. Label elements

Opening hours:

No GHS label element. No Signal word.

2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Information on ingredients:

Ingredient name	CAS No.	Content (%)
HAZCODE_EU	EC No.	
Water	7732-18-5	> 85
-	231-791-2	
Buffer	CBI	0.1 - 1
-	СВІ	
Mineral A	CBI	1 - 5
-	СВІ	
Mineral B	CBI	0.1 - 1
-	СВІ	
Mineral C	CBI	1 - 5
-	СВІ	
Mineral D	CBI	0.1 - 1
-	СВІ	
Mineral E	CBI	0.1 - 1
-	СВІ	
Nucleotide A	CBI	0.1 - 1
-	СВІ	
Nucleotide B	СВІ	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:

Not contain PBT/vPvB, REACH SVHC listed ingredient. Not contain CMR, REACH SVHC listed ingredient. Not contain Health, REACH SVHC listed ingredient. Not contain Enviro, REACH SVHC listed ingredient.

SECTION 4: First aid measures

4.1. Description of first aid measures	
IF INHALED	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. Seek medical attention if irritation occurs.

IF SWALLOWED

Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

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

5.3. Advice for firefighters

For specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

For special protective equipment and precautions for fire-fighters:

Wear fire/flame resistant/ retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Wear proper protective equipment.

6.2. Environmental precautions

See SECTION 12 for additional Ecological information.

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

Safety treatments:

Avoid contact with skin. Avoid contact with eyes.

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

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

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Adopted value

No adopted value data available in ACGIH.

8.2. Exposure controls

Appropriate engineering controls:

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

Personal protective equipment:

Wear protective gloves. Recommended material(s):
impermeable or chemical resistant rubber.
Wear safety glasses with side-shields or chemical safety
goggles.
Wear protective clothing.

Safety and Health measures:

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Colour	Clear
Odour	None
рН	7 - 8
Flammability	Non-flammable
Solubility	Solubility in water: Soluble

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal storage/handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

No Acute toxicity data available.

No Irritant properties (Skin and Eyes) data available.

No Allergenic and sensitizing effects data available.

No Mutagenic effects data available.

No Carcinogenic effects data available.

- No Teratogenic effects data available.
- No reproductive toxicity data available.
- No STOT-single/repeated exposure data available.
- No Aspiration hazard data available.

SECTION 12: Ecological information

12.1. Ecotoxicity:

No Aquatic toxicity data available. Water solubility (Mineral) 256 g/100 ml (20 °C) (ICSC, 2006)

12.2. Persistence and degradability:

No Persistence and degradability data available.

12.3. Bioaccumulative potential:

No Bioaccumulative potential data available.

12.4. Mobility in soil:

No Mobility in soil data available.

12.5. Results of PBT and vPvB assessment:

No PBT and/or vPvB related data available.

12.6. Other adverse effects:

Ozone depleting chemical data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Contaminated packing:

Dispose of container after using the contents completely.

SECTION 14: Transport information

14.1. UN number, UN CLASS	
UN number	Not applicable to UN number.
IMDG Code (International Maritime	Not applicable to IMDG Code
Dangerous Goods Regulations)	
IATA Dangerous Goods Regulations	Not applicable to IATA Dangerous Goods Regulations

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

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. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code Not applicable.

SECTION 15: Regulatory information

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

mixture

No data available.

Other regulatory information:

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

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

The product is not applicable to GHS classifications.

Reference Book:

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

[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 (EU CLP published in 01.03.2018).

SAFETY DATA SHEET



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SECTION 1: Identification of the su	ubstance/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	e 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 s	afety 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

9:15am - 5:55pm Monday - Friday

SECTION 2: Hazards identification

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

2.2. Label elements

Opening hours:

No GHS label element. No Signal word.

2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Information on ingredients:

Ingredient name	CAS No.	Content (%)
HAZCODE_EU	EC No.	
Water	7732-18-5	> 70
-	231-791-2	
Buffer	СВІ	0.1 - 1
-	СВІ	
Mineral	СВІ	0.1 - 1
-	СВІ	
Glycerol	56-81-5	25 - 30
-	200-289-5	

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:

Not contain PBT/vPvB, REACH SVHC listed ingredient. Not contain CMR, REACH SVHC listed ingredient. Not contain Health, REACH SVHC listed ingredient. Not contain Enviro, REACH SVHC listed ingredient.

SECTION 4: First aid measures

4.1. Description of first aid meas	sures
IF INHALED	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. Seek medical attention if irritation occurs.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

For specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

For special protective equipment and precautions for fire-fighters:

Wear fire/flame resistant/ retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Wear proper protective equipment.

6.2. Environmental precautions

See SECTION 12 for additional Ecological information.

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

Safety treatments: Avoid contact with skin.

Avoid contact with eyes.

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

Keep container tightly closed.

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

7.3. Specific end use(s)

No further relevant information available.

Adopted value No adopted value data available in ACGIH. 8.2. Exposure controls Appropriate engineering controls: Eye wash station should be available. Eye wash station should be available. Washing facilities should be available. Wear protective gloves. Recommended material(s): Hand protection Wear protective gloves. Recommended material(s): Eye protection Wear safety glasses with side-shields or chemical safety goggles. Skin and body protection Wear protective clothing.

Safety and Health measures:

8.1. Control parameters

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.

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Colour	Clear
Odour	None
рН	7 - 8
Flammability	Non-flammable
Solubility	Solubility in water: Soluble

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal storage/handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

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10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- No Acute toxicity data available.
- No Irritant properties (Skin and Eyes) data available.
- No Allergenic and sensitizing effects data available.
- No Mutagenic effects data available.
- No Carcinogenic effects data available.
- No Teratogenic effects data available.
- No reproductive toxicity data available.
- No STOT-single/repeated exposure data available.
- No Aspiration hazard data available.

SECTION 12: Ecological information

12.1. Ecotoxicity:

No Aquatic toxicity data available.

- Water solubility
 - (Mineral)
 256 g/100 ml (20 °C) (ICSC, 2006)

 (Glycerol)
 miscible (ICSC, 2006)

12.2. Persistence and degradability:

No Persistence and degradability data available.

12.3. Bioaccumulative potential:

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

12.4. Mobility in soil:

No Mobility in soil data available.

12.5. Results of PBT and vPvB assessment:

No PBT and/or vPvB related data available.

12.6. Other adverse effects:

Ozone depleting chemical data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Contaminated packing:

Dispose of container after using the contents completely.

SECTION 14: Transport information	
14.1. UN number, UN CLASS	
Not applicable.	
IMDG Code (International Maritime Dangerous Goods Regulations)	Not applicable.
IATA Dangerous Goods Regulations	Not applicable.
14.2. UN proper shipping name	
Not applicable.	
IMDG Code (International Maritime Dangerous Goods Regulations)	Not applicable.
IATA Dangerous Goods Regulations	Not applicable.
14.3. Transport hazard class(es)	
Not applicable.	
IMDG Code (International Maritime Dangerous Goods Regulations)	Not applicable.
IATA Dangerous Goods Regulations	Not applicable.
14.4. Packing group	
Not applicable.	
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. Transport in bulk according to Annex II of MARPOL 73/78 and IBC	Code
Not applicable.	

SECTION 15: Regulatory information

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

No data available.

Other regulatory information:

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

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

The product is not applicable to GHS classifications.

Reference Book:

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information 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.

The GHS classification data given here is based on current EU official data (EU CLP published in 01.03.2018).

SAFETY DATA SHEET



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e substance/mixture and of the company/undertaking	
Solution III	
PF-3A1	
the substance or mixture and uses advised against	
This product is for research and development only.	
No information available.	
ne safety data sheet	
GeneFrontier Corporation	
SHARP Kashiwa Building 4F, 273-1 Kashiwa,	
Kashiwa-shi, Chiba 277-0005, Japan	
+81-4-7137-6301	
+81-4-7132-7530	

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

SECTION 2: Hazards identification

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

2.2. Label elements

No GHS label element. No Signal word.

2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Information on ingredients:

Ingredient name	CAS No.	Content (%)
HAZCODE_EU	EC No.	
Water	7732-18-5	> 90
-	231-791-2	
Buffer	СВІ	0.1 - 1
-	СВІ	
Mineral A	CBI	0.1 - 1
-	СВІ	
Mineral B	СВІ	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:

Not contain PBT/vPvB, REACH SVHC listed ingredient. Not contain CMR, REACH SVHC listed ingredient. Not contain Health, REACH SVHC listed ingredient. Not contain Enviro, REACH SVHC listed ingredient.

SECTION 4: First aid measures

4.1. Description of first aid meas	sures
IF INHALED	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. Seek medical attention if irritation occurs.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

For specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

For special protective equipment and precautions for fire-fighters:

Wear fire/flame resistant/ retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Wear proper protective equipment.

6.2. Environmental precautions

See SECTION 12 for additional Ecological information.

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

Safety treatments: Avoid contact with skin.

Avoid contact with eyes.

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

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

7.3. Specific end use(s)

No further relevant information available.

Adopted value No adopted value data available in ACGIH. 8.2. Exposure controls Appropriate engineering controls: Eye wash station should be available. Washing facilities should be available. 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.

Safety and Health measures:

8.1. Control parameters

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.

SECTION 8: Exposure controls/personal protection

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
Physical state	Liquid
Colour	Clear
Odour	None
рН	7 - 8
Flammability	Non-flammable
Solubility	Solubility in water: Soluble

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal storage/handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

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10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- No Acute toxicity data available.
- No Irritant properties (Skin and Eyes) data available.
- No Allergenic and sensitizing effects data available.
- No Mutagenic effects data available.
- No Carcinogenic effects data available.
- No Teratogenic effects data available.
- No reproductive toxicity data available.
- No STOT-single/repeated exposure data available.
- No Aspiration hazard data available.

SECTION 12: Ecological information

12.1. Ecotoxicity:

No Aquatic toxicity data available. Water solubility (Mineral A) 256 g/100 ml (20 °C) (ICSC, 2006)

12.2. Persistence and degradability:

No Persistence and degradability data available.

12.3. Bioaccumulative potential:

No Bioaccumulative potential data available.

12.4. Mobility in soil:

No Mobility in soil data available.

12.5. Results of PBT and vPvB assessment:

No PBT and/or vPvB related data available.

12.6. Other adverse effects:

Ozone depleting chemical data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Contaminated packing:

Dispose of container after using the contents completely.

SECTION 14: Transport information	
14.1. UN number, UN CLASS	
UN number	Not applicable to UN number.
IMDG Code (International Maritime Dangerous Goods Regulations)	Not applicable to IMDG Code
IATA Dangerous Goods Regulations	Not applicable to IATA Dangerous Goods Regulations
14.2 LIN proper chipping name	

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

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. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code

Not applicable.

SECTION 15: Regulatory information

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

No data available.

Other regulatory information:

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

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

The product is not applicable to GHS classifications.

Reference Book:

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

[Disclaimer]

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The GHS classification data given here is based on current EU official data (EU CLP published in 01.03.2018).





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SECTION 1: Identification of the su	Ibstance/mixture and of the company/undertaking	
1.1. Product identifier		
Product name:	DHFR DNA	
Product code:	PF001-D1	
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 sa	afety 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	

9:15am - 5:55pm Monday - Friday

SECTION 2: Hazards identification

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

2.2. Label elements

Opening hours:

No GHS label element. No Signal word.

2.3. Other hazards

The product does not contain any ingredient designated as PBT and/or vPvB.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable.

3.2. Mixtures

Information on ingredients:

Ingredient name	CAS No.	Content (%)
HAZCODE_EU	EC No.	
Water	7732-18-5	> 95
-	231-791-2	
Nucleotide A	CBI	< 0.1
-	СВІ	
Nucleotide B	CBI	< 0.1
	СВІ	
Nucleotide C	CBI	< 0.1
	СВІ	
Nucleotide D	CBI	< 0.1
-	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:

Not contain PBT/vPvB, REACH SVHC listed ingredient. Not contain CMR, REACH SVHC listed ingredient. Not contain Health, REACH SVHC listed ingredient. Not contain Enviro, REACH SVHC listed ingredient.

SECTION 4: First aid measures

4.1. Description of first aid measures	
IF INHALED	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. Seek medical attention if irritation occurs.
IF SWALLOWED	Rinse mouth. Call a POISON CENTER or doctor/ physician if you feel unwell.

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

No information available.

4.3. Indication of any immediate medical attention and special treatment needed Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Use appropriate extinguishing media suitable for surrounding facilities.

5.2. Special hazards arising from the substance or mixture

No information available.

5.3. Advice for firefighters

For specific fire-fighting measures:

Evacuate non-essential personnel to safe area.

For special protective equipment and precautions for fire-fighters:

Wear fire/flame resistant/ retardant clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures Wear proper protective equipment.

6.2. Environmental precautions

See SECTION 12 for additional Ecological information.

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

Safety treatments: Avoid contact with skin.

Avoid contact with eyes.

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

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

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Adopted value

No adopted value data available in ACGIH.

8.2. Exposure controls

Appropriate engineering controls:

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

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.

Safety and Health measures:

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Liquid
Clear
None
7 - 8
Non-flammable
Solubility in water: Soluble

9.2. Other information

No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

Stable under normal storage/handling conditions.

10.3. Possibility of hazardous reactions

No hazardous reaction expected under normal handling.

10.4. Conditions to avoid

No further relevant information available.

10.5. Incompatible materials

No further relevant information available.

10.6. Hazardous decomposition products

No dangerous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

- No Acute toxicity data available.
- No Irritant properties (Skin and Eyes) data available.
- No Allergenic and sensitizing effects data available.
- No Mutagenic effects data available.
- No Carcinogenic effects data available.
- No Teratogenic effects data available.
- No reproductive toxicity data available.
- No STOT-single/repeated exposure data available.
- No Aspiration hazard data available.

SECTION 12: Ecological information

12.1. Ecotoxicity:

No Aquatic toxicity data available.

12.2. Persistence and degradability:

No Persistence and degradability data available.

12.3. Bioaccumulative potential:

No Bioaccumulative potential data available.

12.4. Mobility in soil:

No Mobility in soil data available.

12.5. Results of PBT and vPvB assessment:

No PBT and/or vPvB related data available.

12.6. Other adverse effects:

Ozone depleting chemical data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Dispose of contents/container in accordance with local/national regulation.

Contaminated packing:

Dispose of container after using the contents completely.

SECTION 14: Transport information

14.1. UN number, UN CLASS	
UN number	Not applicable to UN number.
IMDG Code (International Maritime	Not applicable to IMDG Code
Dangerous Goods Regulations)	
IATA Dangerous Goods Regulations	Not applicable to IATA Dangerous Goods Regulations

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

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. Transport in bulk according to Annex II of MARPOL 73/78 and IBC code Not applicable.

SECTION 15: Regulatory information

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

No data available.

Other regulatory information:

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

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

The product is not applicable to GHS classifications.

Reference Book:

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (60th Edition) 2019 Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK(US DOT) 2019 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information GESTIS-Stoffdatenbank Pub Chem (OPEN CHEMISTRY DATABASE)

[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 (EU CLP published in 01.03.2018).