Kit

Product name	Catalog No.	Quantity
PDI Set	PF006-0.5-EX	500 μL for reaction
	PF006-10-EX	5x 2 mL for reaction

Contents

Product name	Product No.
GSSG	PF002-4
PDI	PF006-6
Ero1α	PF006-7
Dil. Buf.	PF001-DB2

SAFETY DATA SHEET

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PF002-4 (EU) Version 3

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: GSSG
Product code: PF002-4

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.

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PF002-4 (EU) Version 3

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)	EC No.	
No.1272/2008 [CLP]	EC NO.	
L-Glutathione oxidized	27025-41-8	3-5
-	248-170-7	

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.

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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.

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PF002-4 (EU) Version 3

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 Adopted value in ACGIH is not available.

EU OEL value 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.

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Version 3

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 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.

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.

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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 (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.

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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.

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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
Not applicable.
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. Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

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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

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PF006-6 (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: PDI
Product code: PF006-6

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.

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PF006-6 (EU) Version 2

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	СВІ	0.1-2
-	СВІ	
Buffer	СВІ	0.1-1
-	CBI	

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.

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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.

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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 in ACGIH is not available.

EU OEL value 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.

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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 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.

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.

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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 (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.

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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.

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.

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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
Not applicable.
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. Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

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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

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PF006-7 (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: $Ero1\alpha$ Product code:PF006-7

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.

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PF006-7 (EU) Version 2

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	СВІ	0.1-2
-	СВІ	
Buffer	СВІ	0.1-1
-	CBI	

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.

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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.

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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 in ACGIH is not available.

EU OEL value 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.

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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 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.

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.

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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 (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.

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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.

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.

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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
Not applicable.
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. Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

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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

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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: Dil. Buf. (Dilution Buffer)

Product code: PF001-DB2

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.

Product name: Dil. Buf. (Dilution Buffer)

Product No.: PF001-DB2

PF001-DB2 (EU) Version 2

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	СВІ	0.1-2
-	СВІ	
Buffer	СВІ	0.1-1
-	CBI	

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.

Product No.: PF001-DB2

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.

Product name: Dil. Buf. (Dilution Buffer)

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.

Product name: Dil. Buf. (Dilution Buffer)

Product No.: PF001-DB2

PF001-DB2 (EU)

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 in ACGIH is not available.

EU OEL value 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.

Product name: Dil. Buf. (Dilution Buffer)

Product No.: PF001-DB2

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 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.

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.

Product name: Dil. Buf. (Dilution Buffer)

Product No.: PF001-DB2

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 (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.

Product No.: PF001-DB2

Product name: Dil. Buf. (Dilution Buffer)

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.

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

2006)

Product No.: PF001-DB2

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.

Product No.: PF001-DB2

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
Not applicable.
Not applicable.
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. Maritime transport in bulk according to IMO instruments

This product is not intended to be carried in bulk.

Product name: Dil. Buf. (Dilution Buffer)

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)).

Product name: Dil. Buf. (Dilution Buffer)

Product No.: PF001-DB2