



Safety Data Sheet

Endo F1

Document Type AGHS - OSHA GHS

Version 2.3

revised on May 18, 2018

SECTION 1 Identification of the Substance and of the Company

1.1. Product identifier

Product numbers	E-EF01, E-EF01-200, E-EF01-20, KE-EFX3
Product name	Endo F1
Synonyms	Endo F1, Endo- β -N-acetylglucosaminidase F1 Endoglycosidase F1 from Chryseobacterium meningosepticum Endoglycosidase F1 from Elizabethkingia meningoseptica Endoglycosidase F1 from Flavobacterium meningosepticum

1.2. Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals
For research use only. Not intended for human or animal diagnostic or therapeutic uses or used in the manufacture of food or pharmaceutical products

1.3. Details of the supplier of the safety data sheet

QA-Bio, Inc - 128 Vista Monte - Palm Desert, CA 92260
Tel: +1 760-565-3057 or +1 866-384-2272
Email: safety@qa-bio.com, Website: www.QA-Bio.com.com

1.4. Emergency telephone number

Tel: +1 760-565-3057 or +1 866-384-2272

Section 2 Hazards Identification

2.1. Classification of the substance or mixture

This product is considered not hazardous according to the Globally Harmonized System.

2.2. Label elements

None

2.3. Other hazards

No information available

Section 3 Composition of the Material

3.1. Substances

Purified protein in a non-hazardous buffer solution in a 0.5 ml polypropylene vial

3.2. Mixtures

The product does not contain any substances considered to be hazardous to health at their given concentration.

Section 4 First Aid Measures

In case of contact:

Eyes: irrigate with plenty of water.
Skin: wash with soap and water.
Ingestion: drink plenty of water.
Inhalation: move to a well ventilated area and clear nose and throat.

Section 5 Firefighting Measures

- 5.1. Extinguishing media
Non hazardous. Water spray or appropriate foam according to surrounding fire conditions.
- 5.2. Special hazards arising from the substance or mixture
No information available
- 5.3. Advice for firefighters
No special advice

Section 6 Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures
No special measures required.
- 6.2. Environmental precautions
Dilute with water,
- 6.3. Methods and material for containment and cleaning up
Wash spill site with copious amounts of water. Absorb with liquid-binding material.
- 6.4. Reference to other sections
Safe handling see Section 7
Disposal information see section 13

Section 7 Handling and storage

- 7.1. Precautions for safe handling
No special measures required. Handle in accordance with Good Laboratory Practice.
- 7.2. Conditions for safe storage, including any incompatibilities
Store at 4°C
- 7.3. Specific end use(s)
No further information available

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
Wear appropriate protective clothing (safety spectacles, gloves, laboratory coat) in accordance with Good Laboratory Practice.
- 8.2. Exposure controls
No special measures required.

Section 9 Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
- | | |
|------------------------------|-----------------------|
| Form: | Fluid |
| Color: | Colorless |
| Odor: | Not determined |
| Odor threshold: | Not determined |
| pH-value at 20 °C (68 °F): | See product specsheet |
| Change in condition | |
| Melting point/Melting range: | Undetermined |
| Boiling point/Boiling range: | 100 °C (212 °F) |
| Flash point: | Not applicable |
| Flammability: | Not applicable |
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |

Auto igniting:	Product is not selfigniting.
Explosion danger:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density:	Not determined.
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility /Miscibility	
in Water:	Fully miscible
Partition coefficient	
(n-octanol/water)	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Organic solvents:	0.0 %
Water:	99.3 %
Solids content:	0.7 %

9.2. Other information

No other information available

Section 10 Stability and reactivity

10.1. Reactivity

Stable under recommended storage temperatures.

10.2. Chemical stability

Stable under recommended storage temperatures.

10.3. Possibility of hazardous reactions

No dangerous reactions known

10.4. Conditions to avoid

None determined

10.5. Incompatible materials

None determined

10.6. Hazardous decomposition products

None determined

Section 11 Toxicological information

11.1. Information on toxicological effects

Inhalation	May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	May cause slight irritation
Skin corrosion/irritation	Mild
Serious eye damage/irritation	Mild
Irritation	Mild
Corrosivity	Mild
Sensitization	
Skin	No information available
Respiratory	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available

Reproductive toxicity	No information available
Developmental toxicity	No information available
Teratogenicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Chronic toxicity	No information available
Subchronic toxicity	No information available
Neurological effects	No information available
Other adverse effects	No information available
Aspiration hazard	No information available

Section 12 Ecological information

- 12.1. Toxicity
No data available.
- 12.2. Persistence and degradability
No data available.
- 12.3. Bioaccumulative potential
No data available.
- 12.4. Mobility in soil
No data available.
- 12.5. Results of PBT and vPvB assessment
No data available.
- 12.6. Other adverse effects
No data available.

Section 13 Disposal considerations

- 13.1. Waste treatment methods
No special requirements. Dispose of according to local requirements.

Section 14 Transport information

- 14.1. UN number
Not hazardous for transport
- 14.2. UN proper shipping name
None
- 14.3. Transport hazard class(es)
None
- 14.4. Packing group
None
- 14.5. Environmental hazards
No data available
- 14.6. Special precautions for user
Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

Section 15 Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No ingredients are listed.
- 15.2. Chemical safety assessment
No chemical safety assesment

Section 16 Other Information

16.1 Statement information

This document includes information that is believed to be correct based upon currently avaiable knowledge. It is not all-inclusive and does not represent the sum total of information known about the material described herein.

16.2. Date of the latest revision of the SDS

revised on May 18, 2018



Safety Data Sheet

Endo F2

Document Type AGHS - OSHA GHS

Version 2.3

revised on May 18, 2018

SECTION 1 Identification of the Substance and of the Company

1.1. Product identifier

Product numbers	E-EF02, E-EF02-200, E-EF02-20, KE-EFX3
Product name	Endo F2
Synonyms	Endo F2, Endo- β -N-acetylglucosaminidase F2 Endoglycosidase F2 from Chryseobacterium meningosepticum Endoglycosidase F2 from Elizabethkingia meningoseptica Endoglycosidase F2 from Flavobacterium meningosepticum

1.2. Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals

For research use only. Not intended for human or animal diagnostic or therapeutic uses or used in the manufacture of food or pharmaceutical products

1.3. Details of the supplier of the safety data sheet

QA-Bio, Inc - 128 Vista Monte - Palm Desert, CA 92260

Tel: +1 760-565-3057 or +1 866-384-2272

Email: safety@qa-bio.com, Website: www.QA-Bio.com.com

1.4. Emergency telephone number

Tel: +1 760-565-3057 or +1 866-384-2272

Section 2 Hazards Identification

2.1. Classification of the substance or mixture

This product is considered not hazardous according to the Globally Harmonized System.

2.2. Label elements

None

2.3. Other hazards

No information available

Section 3 Composition of the Material

3.1. Substances

Purified protein in a non-hazardous buffer solution in a 0.5 ml polypropylene vial

3.2. Mixtures

The product does not contain any substances considered to be hazardous to health at their given concentration.

Section 4 First Aid Measures

In case of contact:

Eyes: irrigate with plenty of water.

Skin: wash with soap and water.

Ingestion: drink plenty of water.

Inhalation: move to a well ventilated area and clear nose and throat.

Section 5 Firefighting Measures

- 5.1. Extinguishing media
Non hazardous. Water spray or appropriate foam according to surrounding fire conditions.
- 5.2. Special hazards arising from the substance or mixture
No information available
- 5.3. Advice for firefighters
No special advice

Section 6 Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures
No special measures required.
- 6.2. Environmental precautions
Dilute with water,
- 6.3. Methods and material for containment and cleaning up
Wash spill site with copious amounts of water. Absorb with liquid-binding material.
- 6.4. Reference to other sections
Safe handling see Section 7
Disposal information see section 13

Section 7 Handling and storage

- 7.1. Precautions for safe handling
No special measures required. Handle in accordance with Good Laboratory Practice.
- 7.2. Conditions for safe storage, including any incompatibilities
Store at 4°C
- 7.3. Specific end use(s)
No further information available

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
Wear appropriate protective clothing (safety spectacles, gloves, laboratory coat) in accordance with Good Laboratory Practice.
- 8.2. Exposure controls
No special measures required.

Section 9 Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
- | | |
|------------------------------|-----------------------|
| Form: | Fluid |
| Color: | Colorless |
| Odor: | Not determined |
| Odor threshold: | Not determined |
| pH-value at 20 °C (68 °F): | See product specsheet |
| Change in condition | |
| Melting point/Melting range: | Undetermined |
| Boiling point/Boiling range: | 100 °C (212 °F) |
| Flash point: | Not applicable |
| Flammability: | Not applicable |
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |

Auto igniting:	Product is not selfigniting.
Explosion danger:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density:	Not determined.
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility /Miscibility	
in Water:	Fully miscible
Partition coefficient	
(n-octanol/water)	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Organic solvents:	0.0 %
Water:	99.3 %
Solids content:	0.7 %

9.2. Other information

No other information available

Section 10 Stability and reactivity

10.1. Reactivity

Stable under recommended storage temperatures.

10.2. Chemical stability

Stable under recommended storage temperatures.

10.3. Possibility of hazardous reactions

No dangerous reactions known

10.4. Conditions to avoid

None determined

10.5. Incompatible materials

None determined

10.6. Hazardous decomposition products

None determined

Section 11 Toxicological information

11.1. Information on toxicological effects

Inhalation	May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	May cause slight irritation
Skin corrosion/irritation	Mild
Serious eye damage/irritation	Mild
Irritation	Mild
Corrosivity	Mild
Sensitization	
Skin	No information available
Respiratory	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available

Reproductive toxicity	No information available
Developmental toxicity	No information available
Teratogenicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Chronic toxicity	No information available
Subchronic toxicity	No information available
Neurological effects	No information available
Other adverse effects	No information available
Aspiration hazard	No information available

Section 12 Ecological information

- 12.1. Toxicity
No data available.
- 12.2. Persistence and degradability
No data available.
- 12.3. Bioaccumulative potential
No data available.
- 12.4. Mobility in soil
No data available.
- 12.5. Results of PBT and vPvB assessment
No data available.
- 12.6. Other adverse effects
No data available.

Section 13 Disposal considerations

- 13.1. Waste treatment methods
No special requirements. Dispose of according to local requirements.

Section 14 Transport information

- 14.1. UN number
Not hazardous for transport
- 14.2. UN proper shipping name
None
- 14.3. Transport hazard class(es)
None
- 14.4. Packing group
None
- 14.5. Environmental hazards
No data available
- 14.6. Special precautions for user
Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

Section 15 Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No ingredients are listed.
- 15.2. Chemical safety assessment
No chemical safety assesment

Section 16 Other Information

16.1 Statement information

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16.2. Date of the latest revision of the SDS

revised on May 18, 2018



Safety Data Sheet

Endo F3

Document Type AGHS - OSHA GHS

Version 2.3

revised on May 18, 2018

SECTION 1 Identification of the Substance and of the Company

1.1. Product identifier

Product numbers	E-EF03, E-EF03-200, E-EF03-20, KE-EFX3
Product name	Endo F3
Synonyms	Endo F3, Endo- β -N-acetylglucosaminidase F2 Endoglycosidase F3 from <i>Chryseobacterium meningosepticum</i> Endoglycosidase F3 from <i>Elizabethkingia meningoseptica</i> Endoglycosidase F3 from <i>Flavobacterium meningosepticum</i>

1.2. Relevant identified uses of the substance or mixture and uses advised against

Laboratory chemicals

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1.3. Details of the supplier of the safety data sheet

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Email: safety@qa-bio.com, Website: www.QA-Bio.com.com

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Section 2 Hazards Identification

2.1. Classification of the substance or mixture

This product is considered not hazardous according to the Globally Harmonized System.

2.2. Label elements

None

2.3. Other hazards

No information available

Section 3 Composition of the Material

3.1. Substances

Purified protein in a non-hazardous buffer solution in a 0.5 ml polypropylene vial

3.2. Mixtures

The product does not contain any substances considered to be hazardous to health at their given concentration.

Section 4 First Aid Measures

In case of contact:

Eyes: irrigate with plenty of water.

Skin: wash with soap and water.

Ingestion: drink plenty of water.

Inhalation: move to a well ventilated area and clear nose and throat.

Section 5 Firefighting Measures

- 5.1. Extinguishing media
Non hazardous. Water spray or appropriate foam according to surrounding fire conditions.
- 5.2. Special hazards arising from the substance or mixture
No information available
- 5.3. Advice for firefighters
No special advice

Section 6 Accidental Release Measures

- 6.1. Personal precautions, protective equipment and emergency procedures
No special measures required.
- 6.2. Environmental precautions
Dilute with water,
- 6.3. Methods and material for containment and cleaning up
Wash spill site with copious amounts of water. Absorb with liquid-binding material.
- 6.4. Reference to other sections
Safe handling see Section 7
Disposal information see section 13

Section 7 Handling and storage

- 7.1. Precautions for safe handling
No special measures required. Handle in accordance with Good Laboratory Practice.
- 7.2. Conditions for safe storage, including any incompatibilities
Store at 4°C
- 7.3. Specific end use(s)
No further information available

SECTION 8: Exposure controls/personal protection

- 8.1. Control parameters
Wear appropriate protective clothing (safety spectacles, gloves, laboratory coat) in accordance with Good Laboratory Practice.
- 8.2. Exposure controls
No special measures required.

Section 9 Physical and chemical properties

- 9.1. Information on basic physical and chemical properties
- | | |
|------------------------------|-----------------------|
| Form: | Fluid |
| Color: | Colorless |
| Odor: | Not determined |
| Odor threshold: | Not determined |
| pH-value at 20 °C (68 °F): | See product specsheet |
| Change in condition | |
| Melting point/Melting range: | Undetermined |
| Boiling point/Boiling range: | 100 °C (212 °F) |
| Flash point: | Not applicable |
| Flammability: | Not applicable |
| Ignition temperature: | Not determined |
| Decomposition temperature: | Not determined |

Auto igniting:	Product is not selfigniting.
Explosion danger:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined
Upper:	Not determined
Vapor pressure:	Not determined
Density:	Not determined.
Relative density	Not determined
Vapor density	Not determined
Evaporation rate	Not determined
Solubility /Miscibility	
in Water:	Fully miscible
Partition coefficient	
(n-octanol/water)	Not determined
Viscosity:	
Dynamic:	Not determined
Kinematic:	Not determined
Organic solvents:	0.0 %
Water:	99.3 %
Solids content:	0.7 %

9.2. Other information

No other information available

Section 10 Stability and reactivity

10.1. Reactivity

Stable under recommended storage temperatures.

10.2. Chemical stability

Stable under recommended storage temperatures.

10.3. Possibility of hazardous reactions

No dangerous reactions known

10.4. Conditions to avoid

None determined

10.5. Incompatible materials

None determined

10.6. Hazardous decomposition products

None determined

Section 11 Toxicological information

11.1. Information on toxicological effects

Inhalation	May cause irritation of respiratory tract.
Eye contact	Redness. May cause slight irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	May cause slight irritation
Skin corrosion/irritation	Mild
Serious eye damage/irritation	Mild
Irritation	Mild
Corrosivity	Mild
Sensitization	
Skin	No information available
Respiratory	No information available
Germ cell mutagenicity	No information available
Carcinogenicity	No information available

Reproductive toxicity	No information available
Developmental toxicity	No information available
Teratogenicity	No information available
STOT-single exposure	No information available
STOT-repeated exposure	No information available
Chronic toxicity	No information available
Subchronic toxicity	No information available
Neurological effects	No information available
Other adverse effects	No information available
Aspiration hazard	No information available

Section 12 Ecological information

- 12.1. Toxicity
No data available.
- 12.2. Persistence and degradability
No data available.
- 12.3. Bioaccumulative potential
No data available.
- 12.4. Mobility in soil
No data available.
- 12.5. Results of PBT and vPvB assessment
No data available.
- 12.6. Other adverse effects
No data available.

Section 13 Disposal considerations

- 13.1. Waste treatment methods
No special requirements. Dispose of according to local requirements.

Section 14 Transport information

- 14.1. UN number
Not hazardous for transport
- 14.2. UN proper shipping name
None
- 14.3. Transport hazard class(es)
None
- 14.4. Packing group
None
- 14.5. Environmental hazards
No data available
- 14.6. Special precautions for user
Not applicable
- 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

Section 15 Regulatory information

- 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
No ingredients are listed.
- 15.2. Chemical safety assessment
No chemical safety assesment

Section 16 Other Information

16.1 Statement information

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16.2. Date of the latest revision of the SDS

revised on May 18, 2018