



## Safety Data Sheet PNgase F

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-PNG01, E-PNG05, E-PNG01-20, KE-DG01, KE-DGMX  
E-RPNG01, E-RPNG01-200, E-RPNG01-20  
Product name PNGase F  
CAS No. 83534-39-8  
Synonyms PNGase F from Chryseobacterium meningosepticum  
PNGase F from Flavobacterium meningosepticum  
N-Glycosidase F  
Peptide N-glycosidase

#### 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 Beta-(1-4)-Galactosidase

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-BG07, E-BG07-200, E-BG07-20, KE-DG01, KE-DGMX
Product name	Beta-(1-4)-Galactosidase
Synonyms	Lactase $\beta$ -D-Galactoside galactohydrolase; $\beta$ -D-Galactopyranosidase $\beta$ -Lactosidase

#### 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](mailto:safety@qa-bio.com), Website: [www.QA-Bio.com.com](http://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

## Beta-N-acetylglucosaminidase

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-GL01, E-GL01-200, E-GL01-20, KE-DG01, KE-DGMX
Product name	Beta-N-acetylglucosaminidase
Synonyms	$\beta$ -N-acetylhexosaminidase Glucosaminidase

#### 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](mailto:safety@qa-bio.com), Website: [www.QA-Bio.com.com](http://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

### O-Glycosidase

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-G001, E-G001-200, E-G001-20, KE-DG01, KE-DGMX
Product name	O-Glycosidase
Synonyms	O-Glycosidase, from Streptococcus pneumoniae

### 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](mailto:safety@qa-bio.com), Website: [www.QA-Bio.com](http://www.QA-Bio.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

### Sialidase Au

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-S001, E-S001-200, E-S001-20, KE-DG01, KE-DGMX
Product name	Sialidase Au
Synonyms	Nueraminidase NANase N-Acetylneuraminidase N-Acetylneuraminate glycohydrolase

### 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](mailto:safety@qa-bio.com), Website: [www.QA-Bio.com.com](http://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 Compostion 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 Denaturant

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-EH02, E-PNG01, E-RPNG01, KE-DG01, KE-DGMX  
Product name Denaturant  
Synonyms Not applicable

### 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.

<u>Concentration</u>	<u>Product Name</u>	<u>CAS Number</u>	<u>EC/EINECS</u>
91%	Water	7732-18-5	231-791-2
7%	beta-mercaptoethanol	60-24-2	200-464-6
2%	Sodium dodecyl sulphate	151-21-3	205-788-1

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## 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:                        | Mild           |
| Odor threshold:              | Not determined |
| pH-value at 20 °C (68 °F):   | Not determined |
| Change in condition          |                |
| Melting point/Melting range: | Not determined |
| Boiling point/Boiling range: | Not determined |
| 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:	91 %
Solids content:	0.0 %

## 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 be harmful if inhaled. Possibility of allergic response arising from prolonged/repeated exposure in sensitive individuals.
Eye contact	Redness. May cause eye irritation.
Skin contact	Prolonged contact may cause redness and irritation.
Ingestion	May cause slight irritation
Skin corrosion/irritation	May be harmful if absorbed through the skin. May cause skin irritation.
Serious eye damage/irritation	Mild
Irritation	Mild
Corrosivity	Mild
Sensitization	
Skin	May cause skin sensitization with prolonged or repeat exposure.
Respiratory	May be harmful if inhaled.
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	May be harmful if inhaled. Possibility of allergic response arising from prolonged/repeated exposure in sensitive individuals.

## Section 12 Ecological information

### 12.1. Toxicity

May cause long-term adverse effects in the aquatic environment

### 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

Do not allow product to reach sewage system.

Use a licensed professional waste disposal service to dispose of this product.

Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

## 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 Triton-X

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-PNG01, E-RPNG01, E-PNG01-20, KE-DG01, KE-DGMX
Product name	Triton-X
Synonyms	Not applicable

#### 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](mailto:safety@qa-bio.com), Website: [www.QA-Bio.com.com](http://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

Contains a non-hazardous 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): Not determined
  - Change in condition
    - Melting point/Melting range: Not determined
    - Boiling point/Boiling range: Not determined
  - Flash point: Not determined
  - Flammability: Not determined
  - 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

## 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

## Deglycosylation Buffer

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	KE-DG01, KE-DGMX
Product name	Deglycosylation buffer
Synonyms	Not applicable

#### 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](mailto:safety@qa-bio.com), Website: [www.QA-Bio.com.com](http://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

Contains a non-hazardous buffer solution in a 0.5 ml polypropylene vial  
250 mM sodium phosphate, pH 7.5

#### 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