

Version: 202505

# **Material Safety Data Sheet**

# FavorPrep™ Circulating Nucleic Acid Extraction HE Min Kit

Cat. No.:	FACN0030 (4 preps)	FACN0033 (50 preps)	FACN0034 (100 preps)
CL Lysis Buffer	15 ml	200 ml	400 ml
CB Binding Buffer (Concentrate)	21 ml	135 ml × 2	270 ml × 2
Wash Buffer 1 (Concentrate)	0.48 ml × 2	12 ml	24 ml
Wash Buffer 2 (Concentrate)	3 ml	25 ml	50 ml
RNase-Free Water	0.5 ml	5 ml	8 ml
Proteinase K (Liquid)	1050 μl × 2	10.5 ml × 2	10.5 ml × 4

# Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park

No. 8-1, Yuanxi 2<sup>nd</sup> Road, Ping Tung 908126,

**TAIWAN** 

Phone Number: +886-8-762-1829

technical@favorgen.com www.favorgen.com

According to Regulation (EC) No 1907/2006



#### Section 1. IDENTIFICATION

#### 1.1 Product Identifier

Commercial Product Name: CL Lysis Buffer

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

Product form: Laboratory chemical mixture/Lysis Buffer

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

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

Company: Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2<sup>nd</sup> Road, Ping Tung 908126, TAIWAN

Phone Number: +886-8-762-1829

# 1.4 Emergency telephone number

+886-8-762-1829

# Section 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Hazard identification Hazard classes/categories

Acute oral toxicity	Category 4	
Skin burns/eye damage	Category 1	
Aquatic Chronic	Category 3	

GHS hazard pictograms:



GHS05



GHS07

Signal word: WARNING

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/

hearing protection/...

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

#### 2.2 Label elements

According to section 1.5.2 of Annex I to CLP





GHS05



GHS07

WARNING

Hazard contents

Guanidinium thiocyanate, 20~70%, CAS-No. 593-84-0

# 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

According to Regulation (EC) No 1907/2006



CAS No.: 593-84-0

#### Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances or 3.2 Mixtures

Chemical: Guanidinium thiocyanate

Concentration: 20~70%

Classification: H302, Acute oral Tox. 4,

H314, Skin Irrit/Eye Irrit. 1,

H412, 3

#### Section 4. FIRST AID MEASURES

#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

#### In case of skin contact

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

#### If in eyes

Rinse cautiously with water for several minutes

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

H302 - Harmful if swallowed

H314 - Causes severe skin burns and eye damage

H412 - Harmful to aquatic life

# 4.3 Indication of any immediate medical attention and special treatment needed

No data available

# Section 5. FIRE-FIGHTING MEASURES

# 5.1 Extinguishing media

Suitable Extinguishing media: water foam carbon dioxide (CO2) dry powder; All extinguishers can be used.

# 5.2 Special hazards arising from the substance or mixture

None

# 5.3 Advice for firefighters

No specific fire or explosion hazard.

#### 5.4 Additional Information

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# Section 6. ACCIDENTAL RELEASE MEASURE

# 6.1 Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours/Ensure adequate ventilation/Avoid contact with skin, eyes or clothing/Use personal protection equipment/Regular staff training is necessary.

# 6.2 Environmental precautions

Do not allow mixture to enter ground water system.

#### 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### 6.4 Reference to other sections

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# Section 7. HANDLING AND STORAGE

According to Regulation (EC) No 1907/2006



#### 7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool, and well-ventilated place.

#### 7.3 Specific end use(s)

For research use only.

# Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters: None

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

#### Hazardous components without workplace control parameters

Ingredients: guanidinium thiocyanate

CAS-No.: 593-84-0

# 8.2 Exposure controls

Good ventilation and exhaust system in the workplace, and the floor has drainage and washing facilities, which can resist the erosion of chemicals. Must maintain the highest level of cleanliness in the workplace.

#### Personal protective equipment

**Eye/face protection:** Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Recommended to avoid contamination with these hazards.

**Hand protection:** Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Respiratory protection: Not necessary, if the workplace is well-ventilated.

**Personal Hygiene:** Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance: liquid/Color: clear/Odor: characteristic/pH: 7.0~8.0

### 9.2 Other information

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# Section 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Decompositions are not observed during the expiration period under recommended conditions.

#### 10.2 Chemical stability

Decompositions are not observed during the expiration period under recommended conditions.

# 10.3 Possibility of hazardous reactions

**Note:** Thiocyanates can develop poisonous gas in contact with strong acids. Keep away from oxidizing agents, and acidic or alkaline.

# 10.4 Conditions to avoid

Not necessary

# 10.5 Incompatible materials

Note: Avoid contact with strong acids or alkaline.

# 10.6 Hazardous decomposition products

Decompositions are not observed during the expiration period under recommended conditions.

# Material Safety Data Sheet According to Regulation (EC) No 1907/2006



# Section 11. TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

Harmful if swallowed Acute toxicity

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Guanidinium thiocyanate CAS No.: 593-84-0	1,578 mg/kg	2,926 mg/kg	29.26 mg/l Exposure time: 4 h/ vapor

Skin corrosion/irritation Skin irritation Serious eye damage/irritation Causes eye damage Respiratory or skin sensitization Not Classified Germ cell mutagenicity Not Classified Not Classified Carcinogenicity Reproductive toxicity Not Classified Specific target organ toxicity (STOT) - single exposure **Not Classified** Specific target organ toxicity (STOT) - repeated exposure Not Classified Not Classified

# 11.2 Information on other hazards

No data available

# Section 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Following information is valid for pure substances.

**Guanidinium thiocyanate** 

CAS No.: 593-84-0LC50

Toxicity to fish:

LC50 (Poecilia reticulata (guppy)): 89.1 mg/l

Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates:

EC50 (Daphnia): 42.4 mg/l Exposure time: 48 h

Toxicity to fish (Chronic toxicity):

NOEC (Poecilia reticulata (guppy)): 25 mg/l

Exposure time: 96 d

# 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 Endocrine disrupting properties

No data available.

# 12.7 Other adverse effects

No additional data available.

# Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation.

According to Regulation (EC) No 1907/2006



Empty containers should be taken to an approved waste handling site for recycling or disposal.

# Section 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA-DGR: No

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

Not Applicable.

**Further information** 

Not classified as dangerous in transport regulations.

# Section 15. REGULATIONS INFORMATION

**15.1** Safety, health, and environmental regulations/legislation specific for the substance or mixture Look for your country-specific regulations.

# 15.2 Chemical safety assessment

Not necessary

# Section 16. OTHER INFORMATION

# 16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

# 16.2 Training Advice

Regular safety training.

#### 16.3 Recommended Restriction on Use

Only for professional/research user.

# Section 1. IDENTIFICATION

# 1.1 Product Identifier

Commercial Product Name: CB Binding Buffer

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

Product form: Laboratory chemical mixture/Lysis Buffer

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

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According to Regulation (EC) No 1907/2006



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

Company: Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2<sup>nd</sup> Road, Ping Tung 908126, TAIWAN

Phone Number: +886-8-762-1829

#### 1.4 Emergency telephone number

+886-8-762-1829

# Section 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Hazard identification Hazard classes/categories

Acute oral toxicity	Category 4	
Skin burns/eye damage	Category 1	
Aquatic Chronic	Category 3	

GHS hazard pictograms:



GHS05



GHS07

Signal word: DANGER

Hazard statement(s)

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage. H412 Harmful to aquatic life with long lasting effects.

Precautionary statement(s)

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/

hearing protection/...

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.

P330 Rinse mouth.

### 2.2 Label elements

According to section 1.5.2 of Annex I to CLP



GHSOS



GHS0

#### DANGER

Hazard contents

Guanidinium thiocyanate, 20~50%, CAS-No. 593-84-0

# 2.3 Other hazards

Not applicable

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances or 3.2 Mixtures

Chemical: Guanidinium thiocyanate

Concentration: 20~50%

Classification: H302, Acute oral Tox. 4,

H314, Skin Irrit/Eye Irrit. 1,

H412, 3

# Section 4. FIRST AID MEASURES

CAS No.: 593-84-0

According to Regulation (EC) No 1907/2006



#### 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

#### In case of skin contact

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

# If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

# If in eyes

Rinse cautiously with water for several minutes

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

H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life.

# 4.3 Indication of any immediate medical attention and special treatment needed

No data available

#### Section 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

Suitable Extinguishing media: water foam carbon dioxide (CO2) dry powder; All extinguishers can be used.

#### 5.2 Special hazards arising from the substance or mixture

None

#### 5.3 Advice for firefighters

No specific fire or explosion hazard.

# 5.4 Additional Information

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# Section 6. ACCIDENTAL RELEASE MEASURE

# 6.1 Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours/Ensure adequate ventilation/Avoid contact with skin, eyes or clothing/Use personal protection equipment/Regular staff training is necessary.

# 6.2 Environmental precautions

Do not allow mixture to enter ground water system.

# 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material.

# 6.4 Reference to other sections

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# Section 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

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

Keep in a dry, cool, and well-ventilated place.

# 7.3 Specific end use(s)

For research use only.

### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

According to Regulation (EC) No 1907/2006



#### 8.1 Control parameters: None

#### Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

# Hazardous components without workplace control parameters

Ingredients: guanidinium thiocyanate

CAS-No.: 593-84-0

#### 8.2 Exposure controls

Good ventilation and exhaust system in the workplace, and the floor has drainage and washing facilities, which can resist the erosion of chemicals. Must maintain the highest level of cleanliness in the workplace.

#### Personal protective equipment

Eye/face protection: Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

Skin protection: Recommended to avoid contamination with these hazards.

Hand protection: Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3

Respiratory protection: Not necessary, if the workplace is well-ventilated.

**Personal Hygiene:** Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

Appearance: liquid/Color: clear/Odor: odorless/pH: 7.0~7.5

# 9.2 Other information

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# Section 10. STABILITY AND REACTIVITY

#### 10.1 Reactivity

Decompositions are not observed during the expiration period under recommended conditions.

# 10.2 Chemical stability

Decompositions are not observed during the expiration period under recommended conditions.

# 10.3 Possibility of hazardous reactions

**Note:** Thiocyanates can develop poisonous gas in contact with strong acids. Keep away from oxidizing agents, and acidic or alkaline.

### 10.4 Conditions to avoid

Not necessary.

# 10.5 Incompatible materials

Note: Avoid contact with strong acids or alkaline.

# ${\bf 10.6\ Hazardous\ decomposition\ products}$

Decompositions are not observed during the expiration period under recommended conditions.

# Section 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Acute toxicity

Harmful if swallowed

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Guanidinium thiocyanate CAS No.: 593-84-0	1,578 mg/kg	2,926 mg/kg	29.26 mg/l Exposure time: 4 h/ vapor

 Skin corrosion/irritation
 Skin irritation

 Serious eye damage/irritation
 Causes eye damage

 Respiratory or skin sensitization
 Not Classified

 Germ cell mutagenicity
 Not Classified

According to Regulation (EC) No 1907/2006



 Carcinogenicity
 Not Classified

 Reproductive toxicity
 Not Classified

 Specific target organ toxicity (STOT) – single exposure
 Not Classified

 Specific target organ toxicity (STOT) – repeated exposure
 Not Classified

 Aspiration hazard
 Not Classified

#### 11.2 Information on other hazards

No data available.

# Section 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

#### Following information is valid for pure substances.

Guanidinium thiocyanate CAS No.: 593-84-0LC50 leuciscus idus/96h: 1759 mg/L WGK (DE): 1 WGK No.: 0788 Storage class (VCI): 12

# 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 Endocrine disrupting properties

No data available.

# 12.7 Other adverse effects

No additional data available.

# Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

# 13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

# Section 14. TRANSPORT INFORMATION

14.1 UN number
ADR/RID: - IMDG: -

14.2 UN proper shipping name
ADR/RID: Not dangerous goods

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods

IATA: -

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA-DGR: No

# 14.6 Special precautions for user

None.

According to Regulation (EC) No 1907/2006



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

Not Applicable.

# **Further information**

Not classified as dangerous in transport regulations.

# Section 15. REGULATIONS INFORMATION

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

Look for your country-specific regulations.

#### 15.2 Chemical safety assessment

Not necessary.

# Section 16. OTHER INFORMATION

# 16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

# 16.2 Training Advice

Regular safety training.

#### 16.3 Recommended Restriction on Use

Only for professional/research user.

# Section 1. IDENTIFICATION

# 1.1 Product Identifier

Commercial Product Name: Wash Buffer 1

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

Product form: Laboratory chemical mixture

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

\_\_\_\_

# 1.3 Details of the supplier of the safety data sheet

Company: Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2<sup>nd</sup> Road, Ping Tung 908126, TAIWAN

Phone Number: +886-8-762-1829

# 1.4 Emergency telephone number

+886-8-762-1829

# Section 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

Hazard identification Hazard classes/categories

Acute oral toxicity	Category 4	
Skin corrosion/irritation	Category 2	
Serious eye damage/eye irritation	Category 2	

GHS hazard pictograms:



GHS07

Signal word: **WARNING**Hazard statement(s)
H302

Harmful if swallowed

According to Regulation (EC) No 1907/2006



CAS No.: 50-01-1

H315 Causes skin irritation
H319 Causes serious eye irritation

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

P264 Wash hands thoroughly after handling

P270 Do not eat, drink or smoke when using this product

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/ eye protection/ face protectio
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician

P302 + P352 IF ON SKIN: Wash with plenty of soap and water

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P330 Rinse mouth

P332 + P313 If skin irritation occurs: Get medical advice/attention

# 2.2 Label elements

According to section 1.5.2 of Annex I to CLP

GHS symbol



GHS07

WARNING

Hazard contents

Guanidine hydrochloride, 36~50%, CAS-No. 50-01-1

# 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances or 3.2 Mixtures

Chemical: Guanidine hydrochloride

Concentration: 36-<50%

Classification: H302, Acute oral Tox. 4,

H315, Skin Irrit. 2, H319, Eye Irrit. 2

# Section 4. FIRST AID MEASURES

# 4.1 Description of first-aid measures

#### If inhaled

After inhalation: fresh air. If breathing stops: mouth-to-mouth breathing or artificial respiration. Oxygen if necessary. Immediately call in physician.

# In case of skin contact

After skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower.

# In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

H302 - Harmful if swallowed

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H412 - Harmful to aquatic life

# 4.3 Indication of any immediate medical attention and special treatment needed

No data available

# Section 5. FIRE-FIGHTING MEASURES

# 5.1 Extinguishing media

According to Regulation (EC) No 1907/2006



All extinguishers can be used.

#### 5.2 Special hazards arising from the substance or mixture

None known.

#### 5.3 Advice for firefighters

No specific fire or explosion hazard.

#### 5.4 Additional Information

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# Section 6. ACCIDENTAL RELEASE MEASURE

# 6.1 Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours/Ensure adequate ventilation/Avoid contact with skin, eyes or clothing/Use personal protection equipment/Regular staff training is necessary.

# 6.2 Environmental precautions

Do not allow mixture to enter ground water system.

#### 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### 6.4 Reference to other sections

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# Section 7. HANDLING AND STORAGE

# 7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep in a dry, cool, and well-ventilated place.

# 7.3 Specific end use(s)

For research use only.

# Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters: None

Chemical: Guanidine hydrochloride CAS No.: 50-01-1

NIOSH: not listed OSHA: not listed

# 8.2 Exposure controls

Good ventilation and exhaust system in the workplace, and the floor has drainage and washing facilities, which can resist the erosion of chemicals. Must maintain the highest level of cleanliness in the workplace.

# Personal protective equipment

**Eye/face protection:** Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Recommended to avoid contamination with these hazards.

**Hand protection:** Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

Respiratory protection: Not necessary, if the workplace is well-ventilated.

**Personal Hygiene:** Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance: liquid/Color: clear/Odor: odorless/pH: 6.0~7.0

# Material Safety Data Sheet According to Regulation (EC) No 1907/2006



#### 9.2 Other information

# Section 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

No data available

# 10.2 Chemical stability

No data available

#### 10.3 Possibility of hazardous reactions

Note: Can form very reactive substances with oxidizing agents

# 10.4 Conditions to avoid

Not necessary

#### 10.5 Incompatible materials

Note: Avoid contact with strong acids or alkalines.

### 10.6 Hazardous decomposition products

Decompositions are not observed during the expiration period under recommended conditions.

Oral LD50 (Rat)

475-907 mg/kg

# Section 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Guanidine hydrochloride

Acute toxicity

Chemical Name

Not Classified

Inhalation LC50 (Rat)

[4h] 3181-7655 μg/m<sup>3</sup>

Dermal LD50 (Rabbit)

2000 mg/kg

475-907 mg/kg	2000 mg/kg	[4h] 3181-7655 μg/m <sup>3</sup>	
	Skir	irritation/Irritating to eyes	
erious eye damage/irritation Not Classified		Classified	
nsitization Not Classified		Classified	
Germ cell mutagenicity		Not Classified	
Carcinogenicity		Not Classified	
Reproductive toxicity		Not Classified	
Specific target organ toxicity (STOT) – single exposure		Not Classified	
repeated exposure	e Not	Classified	
	Not	Classified	
	- single exposure	Skir Not Not Not - single exposure Not - repeated exposure Not	

# 11.2 Information on other hazards

No data available

# Section 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

Following information is valid for pure substances.

Guanidine hydrochloride CAS No.: 50-01-1

LC50leuciscus idus/96h: 1759 mg/L WGK (DE): 1 WGK No.: 0788 Storage class (VCI): 12

### 12.2 Persistence and degradability

No data available

#### 12.3 Bioaccumulative potential

No data available

# 12.4 Mobility in soil

According to Regulation (EC) No 1907/2006



No data available.

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

# Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

# Section 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: no IMDG Marine pollutant: no IATA-DGR: no

14.6 Special precautions for user

None

# 14.7 Maritime transport in bulk according to IMO instruments

Not Applicable.

#### **Further information**

Not classified as dangerous in transport regulations.

# Section 15. REGULATIONS INFORMATION

# **15.1** Safety, health, and environmental regulations/legislation specific for the substance or mixture Look for your country-specific regulations.

# 15.2 Chemical safety assessment

Not necessary

# Section 16. OTHER INFORMATION

# 16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

# 16.2 Training Advice

Regular safety training.

# 16.3 Recommended Restriction on Use

Only for professional/research user.

According to Regulation (EC) No 1907/2006



.....

#### Section 1. IDENTIFICATION

#### 1.1 Product Identifier

Commercial Product Name: Wash Buffer 2

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

Product form: Laboratory chemical mixture

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

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

Company: Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2<sup>nd</sup> Road, Ping Tung 908126, TAIWAN

Phone Number: +886-8-762-1829

#### 1.4 Emergency telephone number

+886-8-762-1829

#### Section 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

No hazardous substance as specified in Regulation (EC) No 1272/2008.

#### 2.2 Label elements

Does not need labelling as hazardous.

#### 2.3 Other hazards

Not applicable

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances or 3.2 Mixtures

Chemical: chemicals/mixture < 1%, no declaration necessary CAS No.: ------

Concentration: 0.1 - <1%

# Section 4. FIRST AID MEASURES

# 4.1 Description of first-aid measures

If inhaled

Supply fresh air.

# In case of skin contact

Remove contaminated clothing. Rinse skin with water/shower.

#### In case of eye contact

Rinse out with plenty of water.

# If swallowed

Consult a doctor if feeling unwell.

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

No information available.

# 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

# Section 5. FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing media

All extinguishers can be used.

According to Regulation (EC) No 1907/2006



#### 5.2 Special hazards arising from the substance or mixture

None

#### 5.3 Advice for firefighters

No explosion hazard.

#### 5.4 Additional Information

---

# Section 6. ACCIDENTAL RELEASE MEASURE

# 6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.

# **6.2 Environmental precautions**

Do not allow mixture to enter ground water system.

#### 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material.

#### 6.4 Reference to other sections

---

#### Section 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

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

Keep container tightly closed in a dry and well-ventilated place.

# 7.3 Specific end use(s)

For research use only.

# Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Contains no substances with occupational exposure limit.

# 8.2 Exposure controls

# Personal protective equipment

Personal Hygiene: Wash hands before breaks and at the end of work. Handle in accordance with good

industrial hygiene and safety practice.

Eye/face protection: Tight sealing safety glasses.

Hand protection: Protective gloves.

**Respiratory protection:** Not necessary, if the workplace is well-ventilated.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

# ${\bf 9.1}\ Information\ on\ basic\ physical\ and\ chemical\ properties$

Appearance: liquid/Color: clear/ Odor: odorless/pH: 8.0~8.8

#### 9.2 Other information

---

### Section 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

None

# 10.2 Chemical stability

No data available

According to Regulation (EC) No 1907/2006



### 10.3 Possibility of hazardous reactions

None

#### 10.4 Conditions to avoid

Not necessary

#### 10.5 Incompatible materials

None

#### 10.6 Hazardous decomposition products

Decompositions are not observed during the expiration period under recommended conditions.

# Section 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Not Classified Acute toxicity Skin corrosion/irritation Not Classified Serious eye damage/irritation Not Classified Respiratory or skin sensitization Not Classified Germ cell mutagenicity Not Classified Not Classified Carcinogenicity Reproductive toxicity Not Classified Specific target organ toxicity (STOT) - single exposure Not Classified Specific target organ toxicity (STOT) - repeated exposure Not Classified Aspiration hazard Not Classified

#### 11.2 Information on other hazards

No data available

# Section 12. ECOLOGICAL INFORMATION

# 12.1 Toxicity

Contains no substances known to be hazardous to the ecosystem.

# 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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB

# 12.6 Endocrine disrupting properties

No data available.

#### 12.7 Other adverse effects

No data available.

# Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

# 13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

# Section 14. TRANSPORT INFORMATION

According to Regulation (EC) No 1907/2006



14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA-DGR: No

14.6 Special precautions for user

None

# 14.7 Maritime transport in bulk according to IMO instruments

Not Applicable.

#### **Further information**

Not classified as dangerous in transport regulations.

# Section 15. REGULATIONS INFORMATION

# **15.1** Safety, health, and environmental regulations/legislation specific for the substance or mixture Look for your country-specific regulations.

#### 15.2 Chemical safety assessment

Not necessary

# Section 16. REGULATIONS INFORMATION

### 16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

# 16.2 Training Advice

Regular safety training.

# 16.3 Recommended Restriction on Use

Only for professional/research user.

# Section 1. IDENTIFICATION

#### 1.1 Product Identifier

Commercial Product Name: RNase-Free Water

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

Product form: Laboratory chemical mixture

Relevant identified uses: For research use only, not for diagnostic use.  $\label{eq:control}$ 

Uses advised against:

----

# 1.3 Details of the supplier of the safety data sheet

Company: Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2<sup>nd</sup> Road, Ping Tung 908126, TAIWAN

Phone Number: +886-8-762-1829

#### 1.4 Emergency telephone number

According to Regulation (EC) No 1907/2006



+886-8-762-1829

# Section 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

No hazardous substance as specified in Regulation (EC) No 1272/2008.

#### 2.2 Label elements

Does not need labelling as hazardous.

# 2.3 Other hazards

Not applicable.

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

# 3.1 Substances or 3.2 Mixtures

Chemical: chemicals/mixture < 1%, no declaration necessary CAS No.: ------

Concentration: 0.1 - <1%

# Section 4. FIRST AID MEASURES

# 4.1 Description of first-aid measures

#### If inhaled

Supply fresh air.

# In case of skin contact

Remove contaminated clothing. Rinse skin with water/shower.

#### In case of eye contact

Rinse out with plenty of water.

#### If swallowed

Consult a doctor if feeling unwell.

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

No information available.

# 4.3 Indication of any immediate medical attention and special treatment needed

No information available.

# Section 5. FIRE-FIGHTING MEASURES

# 5.1 Extinguishing media

All extinguishers can be used.

# 5.2 Special hazards arising from the substance or mixture

None.

# 5.3 Advice for firefighters

No explosion hazard.

# 5.4 Additional Information

---

# Section 6. ACCIDENTAL RELEASE MEASURE

# 6.1 Personal precautions, protective equipment, and emergency procedures

Ensure adequate ventilation.

#### 6.2 Environmental precautions

Do not allow mixture to enter ground water system.

# 6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material.

# 6.4 Reference to other sections

---

According to Regulation (EC) No 1907/2006



# Section 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

#### 7.3 Specific end use(s)

For research use only.

#### Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Contains no substances with occupational exposure limit.

#### 8.2 Exposure controls

#### Personal protective equipment

Personal Hygiene: Wash hands before breaks and at the end of work. Handle in accordance with good

industrial hygiene and safety practice.

**Eye/face protection:** Tight sealing safety glasses.

Hand protection: Protective gloves.

Respiratory protection: Not necessary, if the workplace is well-ventilated.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance: liquid/ Color: clear/ Odor: odorless/ pH: 8.0~9.0

#### 9.2 Other information

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# Section 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

None.

# 10.2 Chemical stability

No data available.

# 10.3 Possibility of hazardous reactions

None.

# 10.4 Conditions to avoid

Not necessary.

# 10.5 Incompatible materials

None.

### 10.6 Hazardous decomposition products

Decompositions are not observed during the expiration period under recommended conditions.

# Section 11. TOXICOLOGICAL INFORMATION

# 11.1 Information on toxicological effects

Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation
Not Classified
Serious eye damage/irritation
Not Classified
Respiratory or skin sensitization
Not Classified
Germ cell mutagenicity
Not Classified
Carcinogenicity
Not Classified

According to Regulation (EC) No 1907/2006



Reproductive toxicity

Specific target organ toxicity (STOT) – single exposure

Specific target organ toxicity (STOT) – repeated exposure

Aspiration hazard

Not Classified

Not Classified

Not Classified

#### 11.2 Information on other hazards

No data available.

# Section 12. ECOLOGICAL INFORMATION

#### 12.1 Toxicity

Contains no substances known to be hazardous to the ecosystem.

#### 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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

# 12.6 Endocrine disrupting properties

No data available.

# 12.7 Other adverse effects

No data available.

# Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation.

Empty containers should be taken to an approved waste handling site for recycling or disposal.

# Section 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: - IMDG: - IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: - IMDG: - IATA: -

14.4 Packaging group

ADR/RID: - IMDG: - IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA-DGR: No

# 14.6 Special precautions for user

. None

# 14.7 Maritime transport in bulk according to IMO instruments

Not Applicable.

#### **Further information**

Not classified as dangerous in transport regulations.

According to Regulation (EC) No 1907/2006



# Section 15. REGULATIONS INFORMATION

# **15.1 Safety, health, and environmental regulations/legislation specific for the substance or mixture** Look for your country-specific regulations.

# 15.2 Chemical safety assessment

Not necessary.

# Section 16. REGULATIONS INFORMATION

#### 16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

# 16.2 Training Advice

Regular safety training.

#### 16.3 Recommended Restriction on Use

Only for professional/research user.

.....

#### Section 1. IDENTIFICATION

#### 1.1 Product Identifier

Commercial Product Name: Proteinase K (Liquid)

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

Product form: Laboratory chemical mixture

Relevant identified uses: For research use only, not for diagnostic use.

Uses advised against:

-----

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

Company: Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2<sup>nd</sup> Road, Ping Tung 908126, TAIWAN

Phone Number: +886-8-762-1829

### 1.4 Emergency telephone number

+886-8-762-1829

# Section 2. HAZARDS IDENTIFICATION

# 2.1 Classification of the substance or mixture

Hazard identification Hazard classes/categories

Resp. Sens.	Category 1
Sensitization/skin	Category 1

GHS hazard pictograms:



GHS08

Signal word: **DANGER** 

Hazard statement(s)

H317 May cause an allergic skin reaction.

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statement(s)

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection/

According to Regulation (EC) No 1907/2006



CAS No.: 39450-01-6

hearing protection/...

P284 [In case of inadequate ventilation] wear respiratory protection.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/doctor. P501 Dispose of contents/container in accordance with local/regional/national/

international regulations.

**Supplemental Hazard Statements** 

None

#### 2.2 Label elements

According to section 1.5.2 of Annex I to CLP

GHS symbol



DANGER

# 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

# Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances or 3.2 Mixtures

Chemical: Proteinase K

Concentration: 1- ≤2.5%

Classification: H334, Resp. Sens. 1,

H315, Skin Irrit. 2, H317, Skin Sens.1 H319, Eye Irrit. 2 H335, STOT SE 3

# Section 4. FIRST AID MEASURES

#### 4.1 Description of first-aid measures

# If inhaled

After inhalation: Supply fresh air; consult doctor in case of complaints.

# In case of skin contact

After skin contact: Immediately wash with water and soap and rinse thoroughly. Seek medical treatment.

# In case of eye contact

After eye contact: Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. Call a doctor immediately.

#### If swallowed

After swallowing: Call a doctor immediately.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available

# Section 5. FIRE-FIGHTING MEASURES

# 5.1 Extinguishing media

All extinguishers can be used.

### 5.2 Special hazards arising from the substance or mixture

None known.

#### 5.3 Advice for firefighters

No specific fire or explosion hazard.

#### 5.4 Additional Information

According to Regulation (EC) No 1907/2006



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# Section 6. ACCIDENTAL RELEASE MEASURE

#### 6.1 Personal precautions, protective equipment, and emergency procedures

Do not breathe vapours/Ensure adequate ventilation/Avoid contact with skin, eyes or clothing/Use personal protection equipment/Regular staff training is necessary.

#### 6.2 Environmental precautions

Do not allow mixture to enter ground water system.

#### 6.3 Methods and material for containment and cleaning up

Ensure adequate ventilation.

Soak up the dissolved solution with inert absorbent material.

#### 6.4 Reference to other sections

---

# Section 7. HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Tightly closed. Dry. Keep locked up or in an area accessible only to qualified or authorized persons.

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

# Section 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1 Control parameters: None

Ingredients with workplace control parameters.

# 8.2 Exposure controls

Good ventilation and exhaust system in the workplace, and the floor has drainage and washing facilities, which can resist the erosion of chemicals. Must maintain the highest level of cleanliness in the workplace.

# Personal protective equipment

**Eye/face protection:** Safety glasses. Used to prevent splash hazards. Government standards such as NIOSH (US) or EN 166(EU).

**Skin protection:** Recommended to avoid contamination with these hazards.

**Hand protection:** Protective gloves, use for short times chemical resistant latex gloves with code EN 374-3 level 1.

**Respiratory protection:** Not necessary, if the workplace is well-ventilated.

**Personal Hygiene:** Wash hands before breaks and at the end of work. Handle in accordance with good industrial hygiene and safety practice.

# Section 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1 Information on basic physical and chemical properties

Appearance: liquid/Color: colorless/Odor: odorless/pH: 7.5

# 9.2 Other information

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# Section 10. STABILITY AND REACTIVITY

# 10.1 Reactivity

No further relevant information available.

According to Regulation (EC) No 1907/2006



#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature). Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available.

# 10.4 Conditions to avoid

No information available.

#### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

In the event of fire: see section 5.

#### Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity
Skin corrosion/irritation
Serious eye damage/irritation

Respiratory or skin sensitization

Germ cell mutagenicity

Carcinogenicity

Reproductive toxicity

Specific target organ toxicity (STOT) – single exposure

Specific target organ toxicity (STOT) – repeated exposure

Aspiration hazard

Not Classified

Causes skin irritation.
Causes serious eye irritation.

May cause allergy or asthma symptoms or

breathing difficulties if inhaled.

Not Classified

Based on available data, the classification

criteria are not met.

Not Classified Not Classified Not Classified Not Classified

# 11.2 Information on other hazards

No data 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 Endocrine disrupting properties

No data available.

# 12.7 Other adverse effects

No additional data available.

# Section 13. DISPOSAL CONSIDERATIONS

Refer to local regulations.

#### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local regulation.

# Material Safety Data Sheet According to Regulation (EC) No 1907/2006



Empty containers should be taken to an approved waste handling site for recycling or disposal.

# Section 14. TRANSPORT INFORMATION

14.1 UN number

ADR/RID: -IMDG: -IATA: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods IMDG: Not dangerous goods IMDG: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -IMDG: -IATA: -

14.4 Packaging group

ADR/RID: -IMDG: -IATA: -

14.5 Environmental hazards

ADR/RID: No IMDG Marine pollutant: No IATA-DGR: No

14.6 Special precautions for user

None

14.7 Maritime transport in bulk according to IMO instruments

Not Applicable.

**Further information** 

Not classified as dangerous in transport regulations.

# Section 15. REGULATIONS INFORMATION

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

This material safety data sheet complies with the requirements of Regulation (EC) No.1907/2006.

# 15.2 Chemical safety assessment

For this product, a chemical safety assessment was not carried out

# Section 16. OTHER INFORMATION

#### 16.1 List of R, H and P phrases

Full text of H-Statements referred to under sections 2 and 3.

#### 16.2 Training Advice

Regular safety training.

#### 16.3 Recommended Restriction on Use

Only for professional/research user.