

Version: 202309

Material Safety Data Sheet

FavorPrep[™] Plasmid Extraction Mini Kit

Cat. No.: Contents	FAPDE 000-Mini (4 preps)	FAPDE 001 (100 preps)	FAPDE 001-1 (300 preps)
FAPD1 Buffer	1.5 ml	30 ml	90 ml
FAPD2 Buffer	1.5 ml	30 ml	90 ml
FAPD3 Buffer	1.5 ml	40 ml	120 ml
WF Buffer (Concentrate)	1.3 ml	35 ml	98 ml
Wash Buffer (Concentrate)	1 ml	20 ml	50 ml
Elution Buffer	0.5 ml	15 ml	35 ml
RNase A Solution	10 µl	75 µl	200 µl

Favorgen Biotech Corp.

Address: Ping-Tung Agricultural Biotechnology Park No. 8-1, Yuanxi 2nd Road, Ping Tung 908126, Taiwan Phone Number: +886-8-762-1829 technical@favorgen.com www.favorgen.com



Section 1. IDENTIFICATION

1.1 Product Identifier

- Commercial Product Name: FAPD1 Buffer
- 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 2nd 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: Concentration: chemicals/mixture < 1%, no declaration necessary 0.1 - <1%

CAS No.: ------

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.

According to Regulation (EC) No 1907/2006



5.3 Advice for firefighters No explosion hazard.

No explosion nazaro.

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: None

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: 7.5~8.5

9.2 Other information

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

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 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

No dangerous goods according to transport regulations 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-DGR: -
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 accord Not Applicable.	ing to IMO instruments	
Further information Not classified as dangerous in tran	sport 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: FAPD2 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:

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 2nd 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 Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A GHS hazard pictograms: GHS07 Signal word: WARNING Hazard statement(s) H315 Causes skin irritation. H319 Causes serious eye irritation. Precautionary statement(s) Wash hands thoroughly after handling. P264 P280 Wear protective gloves/protective clothing/eye protection/face protection. IF ON SKIN: Wash with plenty of soap and water. P302 + P352 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation occurs: Get medical advice/attention. P332 + P313 P337 + P313 If eye irritation persists: Get medical advice/attention. P362 + P364 Take off contaminated clothing and wash. 2.2 Label elements

According to section 1.5.2 of Annex I to CLP



WARNING

2.3 Other hazards Not applicable

Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances or 3.2 Mixtures Chemical: Concentration:	Sodium dodecyl sulfate 1~5%	CAS No.: 151-21-3
Chemical: Concentration:	Sodium hydroxide 1~1.5%	CAS No.: 1310-73-2

Always wear recommended Personal Protective Equipment.

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

H315 - Causes skin irritation.

H319 - Causes serious eye irritation.



4.3 Indication of any immediate medical attention and special treatment needed

Wear Personal Protective Equipment. If skin irritation occurs: Get medical advice.

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 Wear self-contained breathing equipment and protective suit.

5.4 Additional Information

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

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.

ction 8. EXPOSURE CONTROLS/PERSONAL PROTECTION		
8.1 Control parameters: N Chemical:	None Sodium dodecyl sulfate	CAS No.: 151-21-3
Concentration:	1~5%	
Chemical:	Sodium hydroxide	CAS No.: 1310-73-2
Concentration:	1~1.5%	

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: no data/Odor: odorless/pH: 13/Density: 1.008 g/cm³

9.2 Other information

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

- **10.2 Chemical stability** Stable under normal condition.
- **10.3 Possibility of hazardous reactions** None.
- **10.4 Conditions to avoid** No data available.

10.5 Incompatible materials No dangerous reaction known under normal use.

10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Sodium dodecyl sulfate CAS No.: 151-21-3	1,228 mg/kg	200 mg/kg	3,900 mg/m³
Sodium hydroxide CAS No.: 1310-73-2	325 mg/kg	1,350 mg/kg	No data available

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 Not Classified

Not Classified

11.2 Information on other hazards

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Following information is valid for pure substances. Sodium dodecyl sulfate CAS No.: 151-21-3 EC50 Daphnia magna/48h: 1.8 mg/L

> Sodium hydroxide CAS No.: 1310-73-2WGK (DE): 1 No data available

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 This mixture does not contain any substances that are assessed to be a PBT or a vPvB. 12.6 Endocrine disrupting properties No additional 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 No dangerous goods according to transport regulations 14.1 UN number ADR/RID: -IATA: -IMDG: -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-DGR: -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: FAPD3 Buffer

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 2nd 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 ident	ification Hazard classes/categories	
	Acute oral toxicity	Category 4
	Skin corrosion/irritation	Category 2
	Serious eye damage/eye irritation	Category 2A

GHS hazard pictograms:



Signal word: WARNING	
Hazard statement(s)	

ilazaru si	tatement(s)	
H3	302	Harmful if swallowed.
H3	315	Causes skin irritation.
H3	319	Causes serious eye irritation.
Precautio	onary statement(s)	
P2	.64	Wash hands thoroughly after handling.
P2	.80	Wear protective gloves/protective clothing/eye protection/face protection.
P2	.70	Do not eat, drink or smoke when using this product.
P2	.73	Avoid release to the environment.
P3	01 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P3	02 + P352	IF ON SKIN: Wash with plenty of soap and water.
P3	05 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
		lenses, if present and easy to do. Continue rinsing.
P3	30	Rinse mouth.
Р3	32 + P313	If skin irritation occurs: Get medical advice/attention.

2.2 Label elements

According to section 1.5.2 of Annex I to CLP





2.3 Other hazards

Not applicable.

tion 3. COMPOSITION/IN	FORMATION ON INGREDIENTS		
.1 Substances or 3.2 Mix	tures		
Chemical:	Guanidine hydrochloride	CAS No.: 50-01-1	
Concentration:	36 - <50%		
Classification:	H302, Acute oral Tox. 4		
	H315, Skin Irritation 2		
	H319, Eye Irritation 2		
Chemical:	Acetate acid	CAS No.:64-19-7	
Concentration:	10 - <20%		
Classification:	No criteria for classification or nami	No criteria for classification or naming of chemical not required.	

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**
- H315 Causes skin irritation.
 - H319 Causes serious eye irritation.
- 4.3 Indication of any immediate medical attention and special treatment needed No data available.

Section 5. FIRE-FIGHTING MEASURES

5.1 Extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Exposure to decomposition products may be a hazard to health

5.3 Advice for firefighters

Hazardous combustion products: Carbon oxides/Nitrogen oxides (NOx)/Carbon monoxide/Carbon dioxide/ Unburned hydrocarbons (smoke)/Potassium oxide

5.4 Additional Information

Wear self-contained breathing apparatus for firefighting if necessary.

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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According to Regulation (EC) No 1907/2006



Section 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Always wear recommended Personal Protective Equipment./Do not breathe vapors/dust./Avoid contact with skin and eyes./Smoking, eating and drinking should be prohibited in the application area./Dispose of rinse water in accordance with local and national regulations.

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:

Ingredients with workplace control parameters

Ingredients:	CAS No.:	Value type (Form	Control parameters /	Basis
		of exposure)	Permissible	
			concentration	
acetic acid	64-19-7	TWA	10 ppm	ACGIH
		STEL	15 ppm	ACGIH
		ST	15 ppm, 37 mg/m3	NIOSH REL
		TWA	10 ppm	NIOSH REL

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: No data available/Odor: characteristic/pH: 4.5/Specific gravity: 1.15 g/cm³/Flash point: >160°C

9.2 Other information

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

10.4.1 Hazardous decomposition products formed under fire conditions. 10.4.2 Keep away from oxidizing agents, and acidic or alkaline products.

10.5 Incompatible materials

No data available.



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

Chemical Name Oral LD50 (Rat) Dermal LD50 (Rabbit) Inhalation LC50 (Rat) 2000 mg/kg Guanidine hydrochloride 1,120 mg/kg [4h] 3181-7655 μg/m³ CAS No.: 50-01-1 11.4 mg/l (4h) Acetic acid 3,310 mg/kg 1,112 mg/kg CAS No.: 64-19-7

Skin corrosion/irritation Serious eye damage/irritation Respiratory or skin sensitization Specific target organ toxicity (STOT) - single exposure Specific target organ toxicity (STOT) - repeated exposure Carcinogenicity Germ cell mutagenicity **Reproductive toxicity** Aspiration hazard

Skin irritation/Irritating to eyes May cause irretrievable eye damage May irritate skin Not Classified Not Classified Not Classified Not Classified Not Classified 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.

Chemical: Acetate acid, CAS No.: 64-19-7 Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): 1,000 mg/l, Exposure time: 96 h Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia magna (Water flea)): 300.82 mg/l, Exposure time: 48 h

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 additional 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

No dangerous goods according to transport regulations 14.1 UN number



ording to Regulation (EC) No 1907/2	2006	FAVORGEN BIOTECH CORP
ADR/RID: -	IMDG: -	IATA: -
L4.2 UN proper shipping name ADR/RID: Not dangerous goods	IMDG: Not dangerous goods	IMDG: Not dangerous goods
I 4.3 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 accordi Not Applicable.	ing to IMO instruments	
Further information Not classified as dangerous in trans	port regulations.	
ection 15. REGULATIONS INFORMATION		
 action 16. REGULATIONS INFORMATION 16.1 List of R, H and P phrases Full text of H-Statements referred te 16.2 Training Advice	o under sections 2 and 3.	
ection 1. IDENTIFICATION		
1.1 Product Identifier Commercial Product Name: <u>WF Buf</u>	fer	
1.2 Relevant identified uses of the subs Product form: Laboratory chemical r		against
Relevant identified uses: For researc	ch use only, not for diagnostic use.	
Uses advised against:		
1.3 Details of the supplier of the safety Company: Favorgen Biotech Corp. Address: Ping-Tung Agricultural Biot	v data sheet	

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

GHS hazard pictograms:



Signal word: WARNING

Hazard st	atement(s)	
H3	02	Harmful if swallowed.
H3	15	Causes skin irritation.
H3	19	Causes serious eye irritation.
H4	-12	Harmful to aquatic life with long lasting effects.
Precautio	onary statement(s)	
P2	64	Wash hands thoroughly after handling.
P2	80	Wear protective gloves/protective clothing/eye protection/face protection.
P2	70	Do not eat, drink or smoke when using this product.
P2	73	Avoid release to the environment.
P3	01 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P3	02 + P352	IF ON SKIN: Wash with plenty of soap and water.
P3	05 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
		lenses, if present and easy to do. Continue rinsing.
P3	30	Rinse mouth.
P3	32 + P313	If skin irritation occurs: Get medical advice/attention.

2.2 Label elements

According to section 1.5.2 of Annex I to CLP



WARNING 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: Concentration: Classification:

Guanidine hydrochloride 36 - <50% H302, Acute oral Tox. 4 H315, Skin Irritation 2 H319, Eye Irritation 2

CAS No.: 50-01-1

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



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** Wear self-contained breathing apparatus for firefighting if necessary.

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

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:

Chemical: guanidine hydrochloride NIOSH: not listed OSHA: not listed CAS No.: 50-01-1

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: slightly yellow/ Odor: odorless
- 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.

Section 11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Chemical Name	Oral LD50 (Rat)	Dermal LD50 (Rabbit)	Inhalation LC50 (Rat)
Guanidine hydrochloride CAS No.: 50-01-1	1,120 mg/kg	2000 mg/kg	[4h] 3181-7655 μg/m ³
Skin corrosion/irritation Serious eve damage/irritation	Skin irritation/Irritating to eyes Not Classified		

Not Classified

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

Section 12. ECOLOGICAL INFORMATION

12.1 Toxicity

Following information is valid for pure substances.

Chemical: 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

No data available.

12.5 Results of PBT and vPvB assessment No data available.

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12.6 Endocrine disrupting properties No additional 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

No dangerous goods according to transport regulations 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 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: Wash Buffer

1.2 Relevant identified uses of the substance or mixture and uses advised against Product form: Laboratory chemical mixture

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 2nd 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.

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

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

According to Regulation (EC) No 1907/2006



- 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

9.1 Information on basic physical and chemical properties Appearance: liquid/Color: Clear/Odor: odorless/pH: 7.5~8.5

9.2 Other information

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.



Not Classified Not Classified

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	

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.

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: Elution Buffer

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 2nd 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.

According to Regulation (EC) No 1907/2006



Section 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances or 3.2 Mixtures

Chemical:chemicals/mixture < 1%,</th>no declaration necessaryCAS No.: ------Concentration:0.1 - <1%</td>

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
 - ---

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

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 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 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: -

ADIQ KID	INDO: -	IAIA
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

According to Regulation (EC) No 1907/2006



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 A Solution

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 2nd 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:
 Ribonuclease A from bovine pancreas
 CAS No.: 9001-99-4

 Concentration:

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.

According to Regulation (EC) No 1907/2006



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

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:

Components with limit values that require monitoring at the workplace: Not required.

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

FAVORGEN BIOTECH CORP

Appearance: liquid/Odor: odorless

9.2 Other information

Section 10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

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 data available

10.5 Incompatible materials Strong oxidizing agents

10.6 Hazardous decomposition products

No information available

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 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

This substance 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.

12.6 Endocrine disrupting properties

Nol 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

No dangerous goods according to transport regulations 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-DGR: -	
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

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.