

Revision date: Apr 13, 2023; Version 1.0

Print date: December 9, 2024

We Act For a Healthier World

Safety Data Sheet

Lysis Buffer C

Section 1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Lysis Buffer C
Product Code: 3R300056

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

Relevant use(s): Laboratory chemicals. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Zinexts Life Science Corp.

16F., No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)

Tel: +886 2 2246 3579 Fax: +886 2 2243 8570

1.4 Emergency telephone number

CHEMTREC: +1 703-527-3887

+(44)-870-8200418

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Toxicity, Category 4 H302, H312, H332

Skin Corrosion, Category 1C H314
Serious Eye Damage, Category 1 H318
Chronic Aquatic Toxicity, Category 3 H412

2.2 Label elements, including precautionary statements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms:





Signal Word: Danger

Hazard Statements: H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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H332 Harmful if inhaled.

H415 Harmful to aquatic life with long lasting effects.

Precautionary statements: Prevention:

P264 Wash thoroughly after handling.
P273 Avoid release to the environment.

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

protection.

Hazardous components to be listed on the label: Guanidine thiocyanate

2.3 Other hazards

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

Section 3. Composition and information on ingredients

3.1 Substances Not applicable, product is a mixture.

3.2 Mixtures

Hazardous component(s)

Chemical Name	CAS-No. / EC-No.	Classification	Concentration (% w/w)
Guanidine thiocyanate		Acute Tox. 4; H302, H312, H332	
	593-84-0	Skin Corr. 1C; H314	≥ 20 - < 50
	209-812-1	Ser. Eye Dam. 1; H318	2 20 - < 50
		Chron. Aqua. Tox. 3; H412	

Section 4. First aid measures

4.1 Description of first aid measures

General advice: Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled: If unconscious place in recovery position and seek medical advice.

If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

In case of eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and

blindness. Rinse immediately with plenty of water and consult a physician.

Remove contact lenses.

Protect unharmed eye.

If swallowed: If accidentally swallowed, obtain immediate medical attention.

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Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Effects: Causes skin burns and serious eye damage.

In case of inhalation, irritation may occur.

Harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting: Do not allow run-off from firefighting to enter drains or water courses.

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.

5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

In the event of fire and/or explosion do not breathe fumes.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear appropriate personal protective equipment. Avoid contact with

skin and eyes. Provide adequate ventilation. Avoid breathing dust/

fume/gas/mist/vapors/spray.

6.2 Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Prevent further leakage or

spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder sawdust). Keep in suitable, closed containers for

disposal according to local/national regulations.

Unsuitable cleaning agents: sodium hypochlorite.

6.4 Reference to other sections See section 8 and 13 for further information.

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Section 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Do not breath vapor/mist/dust and avoid contact with skin and eyes.

Provide adequate ventilation. Avoid exposure - obtain special

instructions before use.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application

area. Wash hands before breaks and at the end of workday.

Dispose of rinse water in accordance to local and national regulations.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Keep container tightly closed in a dry and well-ventilated place.

Do not store near acids.

7.3 Specific end use(s)

Specific use(s): Except for the instructions already specified it is not necessary to

provide any special recommendation regarding the uses of this

product.

Section 8. Exposure controls/personal protection

8.1 Control parameters Contains no substance with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment:

Eye protection: Tightly fitting safety goggles.

Do not wear contact lenses.

Ensure that eyewash stations and safety showers are close to the

workstation location.

Hand protection material: Wear chemical-resistant protective gloves (EN 374), material nitrile rubber

(recommendation: Camatril 730), break-through time > 480 min., glove

thickness 0.4 mm.

Skin and body protection: Appropriate protective clothing.

Footwear protecting against chemicals.

Respiratory protection: Do not inhale gases, vapors, aerosols or dust - use respiratory protection

equipment with an approved filter.

Environmental control measures:

Avoid discharge into drains and waterways whenever possible.

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid

Color: No data available

Odor: Characteristic

Odor Threshold: No data available

pH: 6.5 - 7.5

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: Not applicable

Evaporation rate: No data available

Burning rate: No data available

Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: No data available

Density: 0.9 - 1.1 g/cm 3 (at 25 °C)

Solubility(ies)

Water solubility: Soluble

Solubility in other solvents: No data available

Partition coefficient:

n-octanol/water: No data available

Auto-ignition temperature: not determined

Decomposition temperature: No data available

Viscosity

Viscosity, dynamic: No data available

Viscosity, kinematic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

No information available

Section 10. Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

Thiocyanates can develop poisonous gases in contact with strong acids.

Keep away from oxidizing agents, and acidic or alkaline products.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No data available

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 Harmful if swallowed or inhaled.

Component: Guanidine thiocyanate

Acute oral toxicity: Oral LD50 (rat): 593 mg/kg

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin corrosion/irritation Causes severe skin burns.

Component: Guanidine thiocyanate May cause skin burns and corrosions.

Serious eye damage/

eye irritation Causes serious eye damage.

Component: Guanidine thiocyanate May cause severe eye irritation.

Respiratory or skin

sensitization Skin sensitization: No data available

Respiratory sensitization: No data available

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

<u>IARC:</u> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

OSHA: No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product present at levels greater than or equal to

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0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

No information available

Section 12. Ecological information

12.1 Ecotoxicity

Component: Guanidine thiocyanate

Toxicity to fish: LC50 (4 days): 89.1 mg/l (Poecilia reticula)

Toxicity to algae: EC50 (3 days): 130 mg/l (Desmodesmus subspicatus)

Toxicity to bacteria: No data available

12.2 Persistence and degradability

Component: Guanidine thiocyanate

Inherently degradable

12.3 Bio-accumulative potential

Component: Guanidine thiocyanate

Bioaccumulation: No potential for bioaccumulation.

12.4 Mobility in soil No data available

12.5 Result of PBT/vPvB assessment Product does not contain any components that are assed to be a PBT

or a vPvB.

12.6 Endocrine disruptive properties Not applicable

12.7 Other adverse effectsNo data available

Section 13. Disposal considerations

13.1 Waste treatment methods

Product: The product should not be allowed to enter drains, water courses or the soil.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national

regulations.

Contaminated packaging: Dispose of as unused product.

Do not re-use empty containers.

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Section 14. Transport information

	ADR/RID/ADN	IMDG/IMO	ICAO-TI/IATA	49CFR
14.1 UN number	UN 1760	UN 1760	UN 1760	UN 1760
14.2 Proper shipping name	CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE)	CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE)	Corrosive liquid, n.o.s. (GUANIDINE THIOCYANATE)	Corrosive liquid, n.o.s. (GUANIDINE THIOCYANATE)
14.3 Transport hazard class(es) / code(s)	8	8	8	8
Label(s)	8	8	Corrosive	8
14.4 Packing group	III / C9 / 80	Ш	Ш	Ш
14.5 Environmental hazards	None	None	None	None

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Section 15. Regulatory information

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

REACH – Annex XIV Not applicable

REACH – Candidate list of substances Not applicable

of very high concern for authorization

REACH – Annex XVII Regulated according to No. 3 of the list

Directive 2012/18/EU Not applicable

EPCRA – SARA 311/312 Acute health hazard

EPCRA – SARA 302 Not applicable
EPCRA – SARA 313 Not applicable
US State Regulations, California, Prop. 65 Not applicable

TSCA list No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

15.2 Chemical safety assessment No chemical safety assessment has been carried out.

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Section 16. Other information

Reason for revision: New document.

Reason number: 1.0

Reason date: April 13, 2023

References: ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

eChem Portal: http://www.echemportal.org/

LOLI database: https://www.chemadvisor.com/loli-databas

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this SDS does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose.



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Safety Data Sheet

Magnetic Beads B

Section 1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Magnetic Beads B

Product Code: 3R400001

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

Relevant use(s): Laboratory chemicals. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Zinexts Life Science Corp.

16F., No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)

Tel: +886 2 2246 3579 Fax: +886 2 2243 8570

1.4 Emergency telephone number

CHEMTREC: +1 703-527-3887

+(44)-870-8200418

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture

2.2 Label elements, including precautionary statements

Not a hazardous substance or mixture

2.3 Other hazards

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

Section 3. Composition and information on ingredients

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Section 4. First aid measures

4.1 Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance.

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If inhaled: Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes.

If symptoms persist, call a physician.

In case of eye contact: Remove contact lenses.

Protect unharmed eye.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed: If accidentally swallowed, obtain immediate medical attention.

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Effects: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting: Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: No information available.

5.3 Advice for firefighters

Special protective equipment: In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear appropriate personal protective equipment.

Avoid breathing dust/fume/gas/mist/vapor/spray.

6.2 Environmental precautions

Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder sawdust). Keep in suitable, closed containers for

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disposal according to local/national regulations.

6.4 Reference to other sections See section 8 and 13 for further information.

Section 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Smoking, eating and drinking should be prohibited in the application

area.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Specific use(s): Except for the instructions already specified it is not necessary to

provide any special recommendation regarding the uses of this

product.

Section 8. Exposure controls/personal protection

8.1 Control parameters Contains no substance with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment:

Eye protection: Wear safety glasses.

Do not wear contact lenses.

Hand protection material: Wear chemical-resistant protective gloves (EN 374).

Skin and body protection: Appropriate protective clothing.

Footwear protecting against chemicals.

Respiratory protection: In case of insufficient ventilation wear respirators and components tested

and approved under appropriate government standards.

Environmental control measures:

No special environmental precautions required.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Suspension

Color: No data available
Odor: No data available
Odor Threshold: No data available

pH: 6 - 7

Melting point/range: No data available

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Boiling point/boiling range: No data available

Flash point: Not applicable

Evaporation rate: No data available

Burning rate: No data available

Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: No data available

Density: No data available

Solubility(ies)

Water solubility: Partly soluble

Solubility in other solvents: No data available

Partition coefficient:

n-octanol/water: No data available

Auto-ignition temperature: not determined

Decomposition temperature: No data available

Viscosity

Viscosity, dynamic: No data available

Viscosity, kinematic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

No information available

Section 10. Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No data available

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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 Not classified based on available information.

Product

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin corrosion/irritation Not classified based on available information.

Product Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/

eye irritation Not classified based on available information.

Product Remarks: May irritate eyes.

Respiratory or skin

sensitization Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product Remarks: No data available

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Not classified based on available information.

<u>IARC:</u> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

OSHA: No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

 $\underline{\text{NTP:}}$ No ingredient of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

No information available

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Section 12. Ecological information

12.1 Ecotoxicity

Product Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

12.2 Persistence and degradability No data available

12.3 Bio-accumulative potential

Product Bioaccumulation: No data available

12.4 Mobility in soil No data available

12.5 Result of PBT/vPvB assessment Product does not contain any components that are assed to be a PBT

or a vPvB.

12.6 Endocrine disruptive properties Not applicable

12.7 Other adverse effectsNo data available

Section 13. Disposal considerations

13.1 Waste treatment methods

Product: Dispose of contents/containers in compliance with local and national

regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for

recycling or disposal.

Section 14. Transport information

Product is not regulated as dangerous good.

	ADR/RID/ADN	IMDG/IMO	ICAO-TI/IATA	49CFR
14.1 UN number	-	-	-	-
14.2 Proper shipping name	-	-	-	-
14.3 Transport hazard class(es) / code(s)	-	-	-	-
Label(s)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	-	-	-	-

14.6 Special precautions for user No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Section 15. Regulatory information

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

REACH – Annex XIV Not applicable

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REACH – Candidate list of substances of

Not applicable

very high concern for authorization

REACH – Annex XVII Not applicable
Directive 2012/18/EU Not applicable
EPCRA – SARA 311/312 Not applicable
EPCRA – SARA 302 Not applicable
EPCRA – SARA 313 Not applicable

US State Regulations, California, Prop. 65 Not applicable

TSCA list No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

15.2 Chemical safety assessment No chemical safety assessment has been carried out.

Section 16. Other information

Reason for revision: Update according to Commission Regulation (EU) 2020/878.

Reason number: 2.9

Reason date: April 13, 2023

References: ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

eChem Portal: http://www.echemportal.org/

LOLI database: https://www.chemadvisor.com/loli-databas

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this SDS does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose.



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Safety Data Sheet

RNase-free water

Section 1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: RNase-free water

Product Code: 3R300027

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

Relevant use(s): Laboratory chemicals. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Zinexts Life Science Corp.

16F., No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)

Tel: +886 2 2246 3579 Fax: +886 2 2243 8570

1.4 Emergency telephone number

CHEMTREC: +1 703-527-3887

+(44)-870-8200418

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture

2.2 Label elements, including precautionary statements

Not a hazardous substance or mixture

2.3 Other hazards

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

Section 3. Composition and information on ingredients

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Section 4. First aid measures

4.1 Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance.

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If inhaled: Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes.

If symptoms persist, call a physician.

In case of eye contact: Remove contact lenses.

Protect unharmed eye.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed: If accidentally swallowed, obtain immediate medical attention.

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Effects: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting: Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: No information available.

5.3 Advice for firefighters

Special protective equipment: In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear appropriate personal protective equipment.

Avoid breathing dust/fume/gas/mist/vapor/spray.

6.2 Environmental precautions

Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder sawdust). Keep in suitable, closed containers for

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disposal according to local/national regulations.

6.4 Reference to other sections See section 8 and 13 for further information.

Section 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Smoking, eating and drinking should be prohibited in the application

area.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Specific use(s): Except for the instructions already specified it is not necessary to

provide any special recommendation regarding the uses of this

product.

Section 8. Exposure controls/personal protection

8.1 Control parameters Contains no substance with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment:

Eye protection: Wear safety glasses.

Do not wear contact lenses.

Hand protection material: Wear chemical-resistant protective gloves (EN 374).

Skin and body protection: Appropriate protective clothing.

Footwear protecting against chemicals.

Respiratory protection: In case of insufficient ventilation wear respirators and components tested

and approved under appropriate government standards.

Environmental control measures:

No special environmental precautions required.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid

Color: Colorless

Odor: Characteristic

Odor Threshold: No data available

pH: 5 - 7

Melting point/range: No data available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

Boiling point/boiling range: No data available

Flash point: Not applicable

Evaporation rate: No data available

Burning rate: No data available

Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: No data available

Density: No data available

Solubility(ies)

Water solubility: Soluble

Solubility in other solvents: No data available

Partition coefficient:

n-octanol/water: No data available

Auto-ignition temperature: not determined

Decomposition temperature: No data available

Viscosity

Viscosity, dynamic: No data available

Viscosity, kinematic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

No information available

Section 10. Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No data available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

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 Not classified based on available information.

Product

Acute oral toxicity: No data available
Acute inhalation toxicity: No data available
Acute dermal toxicity: No data available

Skin corrosion/irritation Not classified based on available information.

Product Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/

eye irritation Not classified based on available information.

Product Remarks: May irritate eyes.

Respiratory or skin

sensitization Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product Remarks: No data available

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Not classified based on available information.

<u>IARC:</u> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

OSHA: No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

No information available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

Section 12. Ecological information

12.1 Ecotoxicity

Product Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

12.2 Persistence and degradability No data available

12.3 Bio-accumulative potential

ProductBioaccumulation:No data available

12.4 Mobility in soil No data available

12.5 Result of PBT/vPvB assessment Product does not contain any components that are assed to be a PBT

or a vPvB.

12.6 Endocrine disruptive properties Not applicable

12.7 Other adverse effectsNo data available

Section 13. Disposal considerations

13.1 Waste treatment methods

Product: Dispose of contents/containers in compliance with local and national

regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for

recycling or disposal.

Section 14. Transport information

Product is not regulated as dangerous good.

	ADR/RID/ADN	IMDG/IMO	ICAO-TI/IATA	49CFR
14.1 UN number	-	-	-	-
14.2 Proper shipping name	-	-	-	-
14.3 Transport hazard class(es) / code(s)	-	-	-	-
Label(s)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	-	-	-	-

14.6 Special precautions for user No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Section 15. Regulatory information

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

REACH – Annex XIV Not applicable

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

REACH – Candidate list of substances of

US State Regulations, California, Prop. 65

very high concern for authorization

REACH – Annex XVII Not applicable
Directive 2012/18/EU Not applicable
EPCRA – SARA 311/312 Not applicable
EPCRA – SARA 302 Not applicable
EPCRA – SARA 313 Not applicable

TSCA list No substances are subject to a Significant New Use Rule.

Not applicable

Not applicable

No substances are subject to TSCA 12(b) export notification

requirements.

15.2 Chemical safety assessmentNo chemical safety assessment has been carried out.

Section 16. Other information

Reason for revision: Update according to Commission Regulation (EU) 2020/878.

Reason number: 2.9

Reason date: April 13, 2023

References: ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

eChem Portal: http://www.echemportal.org/

LOLI database: https://www.chemadvisor.com/loli-databas

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this SDS does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose.



Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

We Act For a Healthier World

Safety Data Sheet

Wash Buffer A

Section 1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Wash Buffer A
Product Code: 3R300021

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

Relevant use(s): Laboratory chemicals. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Zinexts Life Science Corp.

16F., No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)

Tel: +886 2 2246 3579 Fax: +886 2 2243 8570

1.4 Emergency telephone number

CHEMTREC: +1 703-527-3887

+(44)-870-8200418

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture

2.2 Label elements, including precautionary statements

Not a hazardous substance or mixture

2.3 Other hazards

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

Section 3. Composition and information on ingredients

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Section 4. First aid measures

4.1 Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance.

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

If inhaled: Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes.

If symptoms persist, call a physician.

In case of eye contact: Remove contact lenses.

Protect unharmed eye.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed: If accidentally swallowed, obtain immediate medical attention.

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Effects: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting: Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: No information available.

5.3 Advice for firefighters

Special protective equipment: In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear appropriate personal protective equipment.

Avoid breathing dust/fume/gas/mist/vapor/spray.

6.2 Environmental precautions

Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder sawdust). Keep in suitable, closed containers for

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

disposal according to local/national regulations.

6.4 Reference to other sections See section 8 and 13 for further information.

Section 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Smoking, eating and drinking should be prohibited in the application

area.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Specific use(s): Except for the instructions already specified it is not necessary to

provide any special recommendation regarding the uses of this

product.

Section 8. Exposure controls/personal protection

8.1 Control parameters Contains no substance with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment:

Eye protection: Wear safety glasses.

Do not wear contact lenses.

Hand protection material: Wear chemical-resistant protective gloves (EN 374).

Skin and body protection: Appropriate protective clothing.

Footwear protecting against chemicals.

Respiratory protection: In case of insufficient ventilation wear respirators and components tested

and approved under appropriate government standards.

Environmental control measures:

No special environmental precautions required.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid

Color: Colorless

Odor: Characteristic

Odor Threshold: No data available

pH: 7 - 8

Melting point/range: No data available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

Boiling point/boiling range: No data available

Flash point: Not applicable

Evaporation rate: No data available

Burning rate: No data available

Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: No data available

Density: $0.83 - 0.86 \text{ g/cm} 3 \text{ (at } 25 ^{\circ}\text{C)}$

Solubility(ies)

Water solubility: Soluble

Solubility in other solvents: No data available

Partition coefficient:

n-octanol/water: No data available

Auto-ignition temperature: not determined

Decomposition temperature: No data available

Viscosity

Viscosity, dynamic: No data available

Viscosity, kinematic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

No information available

Section 10. Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No data available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

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 Not classified based on available information.

Product

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin corrosion/irritation Not classified based on available information.

Product Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/

eye irritation Not classified based on available information.

Product Remarks: May irritate eyes.

Respiratory or skin

sensitization Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product Remarks: No data available

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Not classified based on available information.

<u>IARC:</u> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

OSHA: No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

 $\underline{\text{NTP:}}$ No ingredient of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

No information available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

Section 12. Ecological information

12.1 Ecotoxicity

Product Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

12.2 Persistence and degradability No data available

12.3 Bio-accumulative potential

ProductBioaccumulation:No data available

12.4 Mobility in soil No data available

12.5 Result of PBT/vPvB assessment Product does not contain any components that are assed to be a PBT

or a vPvB.

12.6 Endocrine disruptive properties Not applicable

12.7 Other adverse effectsNo data available

Section 13. Disposal considerations

13.1 Waste treatment methods

Product: Dispose of contents/containers in compliance with local and national

regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for

recycling or disposal.

Section 14. Transport information

Product is not regulated as dangerous good.

	ADR/RID/ADN	IMDG/IMO	ICAO-TI/IATA	49CFR
14.1 UN number	-	-	-	-
14.2 Proper shipping name	-	-	-	-
14.3 Transport hazard class(es) / code(s)	-	-	-	-
Label(s)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	-	-	-	-

14.6 Special precautions for user No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Section 15. Regulatory information

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

REACH – Annex XIV Not applicable

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

REACH – Candidate list of substances of

very high concern for authorization

REACH – Annex XVII Not applicable

Directive 2012/18/EU Not applicable

EPCRA – SARA 311/312 Not applicable

EPCRA – SARA 302 Not applicable

EPCRA – SARA 313 Not applicable

US State Regulations, California, Prop. 65 Not applicable

TSCA list No substances are subject to a Significant New Use Rule.

Not applicable

No substances are subject to TSCA 12(b) export notification

requirements.

15.2 Chemical safety assessment No chemical safety assessment has been carried out.

Section 16. Other information

Reason for revision: Update according to Commission Regulation (EU) 2020/878.

Reason number: 2.9

Reason date: April 13, 2023

References: ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

eChem Portal: http://www.echemportal.org/

LOLI database: https://www.chemadvisor.com/loli-databas

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this SDS does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose.



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Print date: December 9, 2024

We Act For a Healthier World

Safety Data Sheet

Wash Buffer B

Section 1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Wash Buffer B
Product Code: 3R300022

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

Relevant use(s): Laboratory chemicals. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Zinexts Life Science Corp.

16F., No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)

Tel: +886 2 2246 3579 Fax: +886 2 2243 8570

1.4 Emergency telephone number

CHEMTREC: +1 703-527-3887

+(44)-870-8200418

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Not a hazardous substance or mixture

2.2 Label elements, including precautionary statements

Not a hazardous substance or mixture

2.3 Other hazards

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

Section 3. Composition and information on ingredients

The product contains no substances which, at their given concentration, are considered to be hazardous to health. We recommend handling all chemicals with caution.

Section 4. First aid measures

4.1 Description of first aid measures

General advice: Show this safety data sheet to the doctor in attendance.

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

If inhaled: Move to fresh air.

If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes.

If symptoms persist, call a physician.

In case of eye contact: Remove contact lenses.

Protect unharmed eye.

Rinse thoroughly with plenty of water for at least 15 minutes and consult a

physician.

If swallowed: If accidentally swallowed, obtain immediate medical attention.

Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Effects: No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting: Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: No information available.

5.3 Advice for firefighters

Special protective equipment: In the event of fire and/or explosion do not breathe fumes.

Wear self-contained breathing apparatus for firefighting if necessary.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear appropriate personal protective equipment.

Avoid breathing dust/fume/gas/mist/vapor/spray.

6.2 Environmental precautions

Environmental precautions: No special environmental precautions required.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder sawdust). Keep in suitable, closed containers for

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

disposal according to local/national regulations.

6.4 Reference to other sections See section 8 and 13 for further information.

Section 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Smoking, eating and drinking should be prohibited in the application

area.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Keep container tightly closed in a dry and well-ventilated place.

7.3 Specific end use(s)

Specific use(s): Except for the instructions already specified it is not necessary to

provide any special recommendation regarding the uses of this

product.

Section 8. Exposure controls/personal protection

8.1 Control parameters Contains no substance with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment:

Eye protection: Wear safety glasses.

Do not wear contact lenses.

Hand protection material: Wear chemical-resistant protective gloves (EN 374).

Skin and body protection: Appropriate protective clothing.

Footwear protecting against chemicals.

Respiratory protection: In case of insufficient ventilation wear respirators and components tested

and approved under appropriate government standards.

Environmental control measures:

No special environmental precautions required.

Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid

Color: Colorless

Odor: Characteristic

Odor Threshold: No data available

pH: 7 - 8

Melting point/range: No data available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

Boiling point/boiling range: No data available

Flash point: Not applicable

Evaporation rate: No data available

Burning rate: No data available

Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: No data available

Density: 0.83 - 0.86 g/cm 3 (at 25 °C)

Solubility(ies)

Water solubility: Soluble

Solubility in other solvents: No data available

Partition coefficient:

n-octanol/water: No data available

Auto-ignition temperature: not determined

Decomposition temperature: No data available

Viscosity

Viscosity, dynamic: No data available

Viscosity, kinematic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

No information available

Section 10. Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No data available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

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 Not classified based on available information.

Product

Acute oral toxicity: No data available

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin corrosion/irritation Not classified based on available information.

Product Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/

eye irritation Not classified based on available information.

Product Remarks: May irritate eyes.

Respiratory or skin

sensitization Skin sensitization: Not classified based on available information.

Respiratory sensitization: Not classified based on available information.

Product Remarks: No data available

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Not classified based on available information.

<u>IARC:</u> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

OSHA: No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product present at levels greater than or equal to

0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

No information available

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

Section 12. Ecological information

12.1 Ecotoxicity

Product Toxicity to fish: No data available

Toxicity to algae: No data available

Toxicity to bacteria: No data available

12.2 Persistence and degradability No data available

12.3 Bio-accumulative potential

Product Bioaccumulation: No data available

12.4 Mobility in soil No data available

12.5 Result of PBT/vPvB assessment Product does not contain any components that are assed to be a PBT

or a vPvB.

12.6 Endocrine disruptive properties Not applicable

12.7 Other adverse effectsNo data available

Section 13. Disposal considerations

13.1 Waste treatment methods

Product: Dispose of contents/containers in compliance with local and national

regulations.

Contaminated packaging: Empty containers should be taken to an approved waste handling site for

recycling or disposal.

Section 14. Transport information

Product is not regulated as dangerous good.

	ADR/RID/ADN	IMDG/IMO	ICAO-TI/IATA	49CFR
14.1 UN number	-	-	-	-
14.2 Proper shipping name	-	-	-	-
14.3 Transport hazard class(es) / code(s)	-	-	-	-
Label(s)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	-	-	-	-

14.6 Special precautions for user No data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Section 15. Regulatory information

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

REACH – Annex XIV Not applicable

Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

REACH - Candidate list of substances of

US State Regulations, California, Prop. 65

very high concern for authorization

REACH – Annex XVII Not applicable
Directive 2012/18/EU Not applicable
EPCRA – SARA 311/312 Not applicable
EPCRA – SARA 302 Not applicable
EPCRA – SARA 313 Not applicable

TSCA list No substances are subject to a Significant New Use Rule.

Not applicable

Not applicable

No substances are subject to TSCA 12(b) export notification

requirements.

15.2 Chemical safety assessmentNo chemical safety assessment has been carried out.

Section 16. Other information

Reason for revision: Update according to Commission Regulation (EU) 2020/878.

Reason number: 2.9

Reason date: April 13, 2023

References: ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

eChem Portal: http://www.echemportal.org/

LOLI database: https://www.chemadvisor.com/loli-databas

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Revision date: Apr 13, 2023; Version 2.9

Print date: December 9, 2024

We Act For a Healthier World

Safety Data Sheet

Washing Buffer Z3

Section 1. Identification of the substance/mixture and of the company

1.1 Product identifier

Product Name: Washing Buffer Z3

Product Code: 3R300050

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

Relevant use(s): Laboratory chemicals. For professional users only.

Uses advised against: All uses not specified in this section or in section 7.3.

1.3 Details of the supplier of the safety data sheet

Manufacturer: Zinexts Life Science Corp.

16F., No. 93, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)

Tel: +886 2 2246 3579 Fax: +886 2 2243 8570

1.4 Emergency telephone number

CHEMTREC: +1 703-527-3887

+(44)-870-8200418

Section 2. Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Toxicity, Category 4 H302, H312, H332

Skin Corrosion, Category 1C H314
Serious Eye Damage, Category 1 H318
Chronic Aquatic Toxicity, Category 3 H412

2.2 Label elements, including precautionary statements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms:





Signal Word: Danger

Hazard Statements: H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

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H332 Harmful if inhaled.

H415 Harmful to aquatic life with long lasting effects.

Precautionary statements: Prevention:

P264 Wash thoroughly after handling.
P273 Avoid release to the environment.

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

protection.

Hazardous components to be listed on the label: Guanidine thiocyanate

2.3 Other hazards

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

Section 3. Composition and information on ingredients

3.1 Substances Not applicable, product is a mixture.

3.2 Mixtures

Hazardous component(s)

Chemical Name	CAS-No. / EC-No.	Classification	Concentration (% w/w)
Guanidine thiocyanate		Acute Tox. 4; H302, H312, H332	
	593-84-0	Skin Corr. 1C; H314	≥ 10 - < 30
	209-812-1	Ser. Eye Dam. 1; H318	210-< 30
		Chron. Aqua. Tox. 3; H412	

Section 4. First aid measures

4.1 Description of first aid measures

General advice: Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

If inhaled: If unconscious place in recovery position and seek medical advice.

If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water while removing

all contaminated clothes and shoes.

Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with

difficulty.

In case of eye contact: Small amounts splashed into eyes can cause irreversible tissue damage and

blindness. Rinse immediately with plenty of water and consult a physician.

Remove contact lenses.

Protect unharmed eye.

If swallowed: If accidentally swallowed, obtain immediate medical attention.

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Rinse mouth with water.

Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No information available.

Effects: Causes skin burns and serious eye damage.

In case of inhalation, irritation may occur.

Harmful if swallowed.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment: No information available

Section 5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Special hazards arising from the substance or mixture

Special hazards during firefighting: Do not allow run-off from firefighting to enter drains or water courses.

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products: Carbon oxides, Nitrogen oxides (NOx), Sulphur oxides.

5.3 Advice for firefighters

Special protective equipment: Wear self-contained breathing apparatus for firefighting if necessary.

In the event of fire and/or explosion do not breathe fumes.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions: Wear appropriate personal protective equipment. Avoid contact with

skin and eyes. Provide adequate ventilation. Avoid breathing dust/

fume/gas/mist/vapors/spray.

6.2 Environmental precautions

Environmental precautions: Prevent entry to sewers and public waters. Prevent further leakage or

spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder,

universal binder sawdust). Keep in suitable, closed containers for

disposal according to local/national regulations.

Unsuitable cleaning agents: sodium hypochlorite.

6.4 Reference to other sections See section 8 and 13 for further information.

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Section 7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Do not breath vapor/mist/dust and avoid contact with skin and eyes.

Provide adequate ventilation. Avoid exposure - obtain special

instructions before use.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application

area. Wash hands before breaks and at the end of workday.

Dispose of rinse water in accordance to local and national regulations.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas: Keep container tightly closed in a dry and well-ventilated place.

Do not store near acids.

7.3 Specific end use(s)

Specific use(s): Except for the instructions already specified it is not necessary to

provide any special recommendation regarding the uses of this

product.

Section 8. Exposure controls/personal protection

8.1 Control parameters Contains no substance with occupational exposure limit values.

8.2 Exposure controls

Personal protective equipment:

Eye protection: Tightly fitting safety goggles.

Do not wear contact lenses.

Ensure that eyewash stations and safety showers are close to the

workstation location.

Hand protection material: Wear chemical-resistant protective gloves (EN 374), material nitrile rubber

(recommendation: Camatril 730), break-through time > 480 min., glove

thickness 0.4 mm.

Skin and body protection: Appropriate protective clothing.

Footwear protecting against chemicals.

Respiratory protection: Do not inhale gases, vapors, aerosols or dust - use respiratory protection

equipment with an approved filter.

Environmental control measures:

Avoid discharge into drains and waterways whenever possible.

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Section 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance: Liquid

Color: No data available

Odor: Characteristic

Odor Threshold: No data available

pH: 5.5 - 6.5

Melting point/range: No data available

Boiling point/boiling range: No data available

Flash point: Not applicable

Evaporation rate: No data available

Burning rate: No data available

Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Vapor pressure: No data available

Relative vapor density: No data available

Relative density: No data available

Density: 0.9 - 1.0 g/cm 3 (at 25 °C)

Solubility(ies)

Water solubility: Soluble

Solubility in other solvents: No data available

Partition coefficient:

n-octanol/water: No data available

Auto-ignition temperature: not determined

Decomposition temperature: No data available

Viscosity

Viscosity, dynamic: No data available

Viscosity, kinematic: No data available

Explosive properties: No data available

Oxidizing properties: No data available

9.2 Other information

No information available

Section 10. Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

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10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Stable under recommended storage conditions.

Hazardous decomposition products formed under fire conditions.

Thiocyanates can develop poisonous gases in contact with strong acids.

Keep away from oxidizing agents, and acidic or alkaline products.

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No data available

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 Harmful if swallowed or inhaled.

Component: Guanidine thiocyanate

Acute oral toxicity: Oral LD50 (rat): 593 mg/kg

Acute inhalation toxicity: No data available

Acute dermal toxicity: No data available

Skin corrosion/irritation Causes severe skin burns.

Component: Guanidine thiocyanate May cause skin burns and corrosions.

Serious eye damage/

eye irritation Causes serious eye damage.

Component: Guanidine thiocyanate May cause severe eye irritation.

Respiratory or skin

sensitization Skin sensitization: No data available

Respiratory sensitization: No data available

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

<u>IARC:</u> No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by

IARC.

 $\underline{\text{OSHA:}}$ No ingredient of this product present at levels greater than or equal to

0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP: No ingredient of this product present at levels greater than or equal to

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0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

11.2 Information on other hazards

No information available

Section 12. Ecological information

12.1 Ecotoxicity

Component: Guanidine thiocyanate

Toxicity to fish: LC50 (4 days): 89.1 mg/l (Poecilia reticula)

Toxicity to algae: EC50 (3 days): 130 mg/l (Desmodesmus subspicatus)

Toxicity to bacteria: No data available

12.2 Persistence and degradability

Component: Guanidine thiocyanate

Inherently degradable

12.3 Bio-accumulative potential

Component: Guanidine thiocyanate

Bioaccumulation: No potential for bioaccumulation.

12.4 Mobility in soil No data available

12.5 Result of PBT/vPvB assessment Product does not contain any components that are assed to be a PBT

or a vPvB.

12.6 Endocrine disruptive properties Not applicable

12.7 Other adverse effectsNo data available

Section 13. Disposal considerations

13.1 Waste treatment methods

Product: The product should not be allowed to enter drains, water courses or the soil.

Send to a licensed waste management company.

Dispose of as hazardous waste in compliance with local and national

regulations.

Contaminated packaging: Dispose of as unused product.

Do not re-use empty containers.

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Section 14. Transport information

	ADR/RID/ADN	IMDG/IMO	ICAO-TI/IATA	49CFR
14.1 UN number	UN 1760	UN 1760	UN 1760	UN 1760
14.2 Proper shipping name	CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE)	CORROSIVE LIQUID, N.O.S. (GUANIDINE THIOCYANATE)	Corrosive liquid, n.o.s. (GUANIDINE THIOCYANATE)	Corrosive liquid, n.o.s. (GUANIDINE THIOCYANATE)
14.3 Transport hazard class(es) / code(s)	8	8	8	8
Label(s)	8	8	Corrosive	8
14.4 Packing group	III / C9 / 80	Ш	Ш	Ш
14.5 Environmental hazards	None	None	None	None

14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

For personal protection see section 8.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Section 15. Regulatory information

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

REACH – Annex XIV Not applicable

REACH – Candidate list of substances Not applicable

of very high concern for authorization

REACH – Annex XVII Regulated according to No. 3 of the list

Directive 2012/18/EU Not applicable

EPCRA – SARA 311/312 Acute health hazard

EPCRA – SARA 302 Not applicable
EPCRA – SARA 313 Not applicable
US State Regulations, California, Prop. 65 Not applicable

TSCA list No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification

requirements.

15.2 Chemical safety assessment No chemical safety assessment has been carried out.

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Section 16. Other information

Reason for revision: Update according to Commission Regulation (EU) 2020/878.

Reason number: 2.9

Reason date: April 13, 2023

References: ECHA: http://echa.europa.eu/

TOXNET: http://toxnet.nlm.nih.gov/

eChem Portal: http://www.echemportal.org/

LOLI database: https://www.chemadvisor.com/loli-databas

The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. The information in this SDS does not constitute a warranty, expressed or implied, including any implied warranty of merchantability or fitness for any particular purpose.