

SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

Cat.No.	Component
CW2603	Buffer CL
	Buffer CB
	Buffer GW1 (concentrate)
	Buffer GW2 (concentrate)
	Buffer EBL
	Proteinase K
	Proteinase K Storage Buffer
	Spin Columns DFwith Collection Tubes
	Centrifuge Tubes (1.5 mL)

SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Buffer CL

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Concentration (% v/w)
guanidine hydrochloride	50-01-1	≥ 50 - < 70

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.
Most important symptoms and effects, both acute and delayed:
No information available.
Indication of any immediate medical attention and special treatment needed:
No information available.

SECTION 5: Firefighting measures

Extinguishing media:
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Specific hazards during firefighting:
Exposure to decomposition products may be a hazard to health.
Hazardous combustion products:
Carbon oxides.
Nitrogen oxides (NO_x).
Sulphur oxides.
Special protective equipment for firefighters:
Wear self-contained breathing apparatus for firefighting if necessary.
Further information:
In the event of fire and/or explosion do not breathe fumes.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:
Use personal protective equipment.
Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
Environmental precautions:
Prevent further leakage or spillage if safe to do so.
Methods and material for containment and cleaning up:
Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:
Normal measures for preventive fire protection.
Advice on safe handling:
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with the skin and the eyes.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers:

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

Advice on common storage:

Do not store near acids.

Other data:

No decomposition if stored and applied as directed.

Specific use(s):

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity**Product:**

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Product:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot .be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Product:

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.

SECTION 14: Transport information

UN number

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63nd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use,

processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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SAFETY DATA SHEET

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GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Buffer CB

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Concentration (% v/w)
Guanidine Hydrochloride	50-01-1	≥ 50 - < 70

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with the skin and the eyes.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers:

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

Advice on common storage:

Do not store near acids.

Other data:

No decomposition if stored and applied as directed.

Specific use(s):

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity**Product:**

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potentialProduct:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot .be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerationsProduct:

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.

SECTION 14: Transport information**UN number**

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63nd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

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SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Buffer GW1 (concentrate)

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

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Label elements

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Hazardous components

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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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with the skin and the eyes.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers:

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

Advice on common storage:

Do not store near acids.

Other data:

No decomposition if stored and applied as directed.

Specific use(s):

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity**Product:**

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potentialProduct:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot .be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerationsProduct:

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.

SECTION 14: Transport information**UN number**

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63nd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use,

processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CW BIO
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SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Buffer GW2 (concentrate)

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

No hazardous components.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with the skin and the eyes.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers:

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

Advice on common storage:

Do not store near acids.

Other data:

No decomposition if stored and applied as directed.

Specific use(s):

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity**Product:**

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Product:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Product:

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.

SECTION 14: Transport information

UN number

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63rd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CW BIO
康为世纪

SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Buffer EBL

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

No hazardous components.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.
Ensure adequate ventilation, especially in confined areas.
Avoid contact with the skin and the eyes.
When using do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities:
Requirements for storage areas and containers:
Keep container tightly closed in a dry and well-ventilated place.
Advice on common storage:
Do not store near acids.
Other data:
No decomposition if stored and applied as directed.
Specific use(s):
Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity

Product:

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Product:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot .be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Product:

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.

SECTION 14: Transport information

UN number

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63nd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Proteinase K

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Concentration (% v/w)
Proteinase K	39450-01-6	<= 100

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with the skin and the eyes.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers:

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

Advice on common storage:

Do not store near acids.

Other data:

No decomposition if stored and applied as directed.

Specific use(s):

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity**Product:**

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Product:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot .be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Product:

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.

SECTION 14: Transport information

UN number

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63nd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

CW BIO
康为世纪

SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Proteinase K Storage Buffer

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

No hazardous components.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.
Ensure adequate ventilation, especially in confined areas.
Avoid contact with the skin and the eyes.
When using do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities:
Requirements for storage areas and containers:
Keep container tightly closed in a dry and well-ventilated place.
Advice on common storage:
Do not store near acids.
Other data:
No decomposition if stored and applied as directed.
Specific use(s):
Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity

Product:

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Product:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot .be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Product:

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.

SECTION 14: Transport information

UN number

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63nd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Spin Columns DF with Collection Tubes

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

No hazardous components.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.
Ensure adequate ventilation, especially in confined areas.
Avoid contact with the skin and the eyes.
When using do not eat, drink or smoke.
Conditions for safe storage, including any incompatibilities:
Requirements for storage areas and containers:
Keep container tightly closed in a dry and well-ventilated place.
Advice on common storage:
Do not store near acids.
Other data:
No decomposition if stored and applied as directed.
Specific use(s):
Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity

Product:

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Product:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot .be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Product:

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.

SECTION 14: Transport information

UN number

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63nd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

SAFETY DATA SHEET

Product Name: CWhipro Circulating Nucleic Acid Kit
GB / T 17519

Prepared by GB / T 16483,

Revision Date: 2024/01/24

Date of initial revision: 2024/01/24

Version: 2024/01/24

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name: Centrifuge Tubes (1.5 mL)

Company Name: Jiangsu CoWin Biotech Co., Ltd

Company Address: No.58 G52 Building, East of Lujia Road, West Side of Tai Road, China medical city, Taizhou, Jiangsu

Postcode: 225300

Fax: 86-523-86816890

E-mail Address: service@cwbiotech.com

Emergency telephone number: 4006-222-360

Use of the Substance/Mixture: Use under laboratory conditions according to instructions

SECTION 2: Hazards identification

Classification of the substance or mixture

Not a hazardous substance or mixture.

Label elements

Not a hazardous substance or mixture.

Additional Labelling

Safety data sheet available on request.

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

Hazardous components

No hazardous components.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

General advice:

Show this safety data sheet to the doctor in attendance.

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.

Most important symptoms and effects, both acute and delayed:

No information available.

Indication of any immediate medical attention and special treatment needed:

No information available.

SECTION 5: Firefighting measures

Extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards during firefighting:

Exposure to decomposition products may be a hazard to health.

Hazardous combustion products:

Carbon oxides.

Nitrogen oxides (NO_x).

Sulphur oxides.

Special protective equipment for firefighters:

Wear self-contained breathing apparatus for firefighting if necessary.

Further information:

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

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment.

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

Environmental precautions:

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up:

Keep in suitable, closed containers for disposal.

SECTION 7: Handling and storage

Advice on protection against fire and explosion:

Normal measures for preventive fire protection.

Advice on safe handling:

Avoid contact with skin and eyes.

For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the application area.

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

Hygiene measures:

Keep away from food and drink.

Wash hands before breaks and at the end of workday.

Ensure adequate ventilation, especially in confined areas.

Avoid contact with the skin and the eyes.

When using do not eat, drink or smoke.

Conditions for safe storage, including any incompatibilities:

Requirements for storage areas and containers:

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

Advice on common storage:

Do not store near acids.

Other data:

No decomposition if stored and applied as directed.

Specific use(s):

Laboratory chemicals

SECTION 8: Exposure controls/personal protection

Control parameters

Contains no substances with occupational exposure limit values.

Eye protection:

Safety glasses.

Hand protection

Remark:

The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

Skin and body protection:

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Footwear protecting against chemicals.

SECTION 9: Physical and chemical properties

Appearance: liquid.

Colour: pink

Odour: No data available.

Odour Threshold: No data available.

pH: About 7.4.

Melting point/range Boiling: No data available.

point/boiling range Flash: No data available.

Point: No data available.

Evaporation rate: No data available.

Burning rate: No data available.

Upper explosion limit: No data available.

Lower explosion limit: No data available.

Vapour pressure: No data available.

Relative vapour density: No data available.

Density: No data available.

Solubility

Water solubility: No data available.

Solubility in other solvents: No data available.

Partition coefficient: n- octanol/water: No data available.

Auto-ignition temperature: No data available.

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.

Other information: No data available.

SECTION 10: Stability and reactivity

Reactivity: No decomposition if stored and applied as directed.

Chemical stability: Stable under recommended storage conditions.

Hazardous reactions: Hazardous decomposition products formed under fire conditions.

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

Conditions to avoid: No data available.

Incompatible materials: No data available.

Hazardous decomposition products: No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

Acute toxicity

Not classified based on available information.

Product:

Acute toxicity estimate: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method.

Acute inhalation toxicity: No data available.

Acute dermal toxicity: Acute toxicity estimate: > 2,000 mg/kg.

Method: Calculation method Components.

Skin corrosion/irritation

Not classified based on available information.

Product:

May cause skin irritation and/or dermatitis.

Components:

CAS# 77-86-1: TY2900000 LD50/LC50:

CAS# 77-86-1: Oral, rat: LD50 = 5900 mg/kg.

Carcinogenicity:

Tris (hydroxymethyl) aminomethane - Not listed by ACGIH, IARC, or NTP.

See actual entry in RTECS for complete information.

Serious eye damage/eye irritation

Not classified based on available information.

Product:

The product causes irritation of eyes, skin and mucous membranes.

Components:

CAS# 1310-73-2: Draize test, rabbit, eye: 400 ug Mild; Draize test, rabbit, eye: 1% Severe;

Draize test, rabbit, eye: 50 ug/24H Severe; Draize test, rabbit, eye: 1 mg/24H Severe;

Draize test, rabbit, skin: 500 mg/24H Severe.

CAS# 7732-18-5: Oral, rat: LD50 = >90 mL/kg.

CAS# 7772-98-7.

Carcinogenicity:

Sodium hydroxide - Not listed by ACGIH, IARC, or NTP.

Water - Not listed by ACGIH, IARC, or NTP.

Sodium thiosulfate - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

Respiratory or skin allergies

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

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.

Further information

No data available.

SECTION 12: Ecological information

Toxicity**Product:**

Toxicity to fish: No data available.

Toxicity to algae: No data available.

Toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

Product:

Bioaccumulation: No data available.

Components: sodium dodecyl sulphate: Partition.

Partition coefficient: n- octanol/water: log Pow: 1.6

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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.

Other adverse effects

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Product:

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.

SECTION 14: Transport information

UN number

Not regulated as a dangerous good.

UN proper shipping name

Not regulated as a dangerous good.

Transport hazard class(es)

Not regulated as a dangerous good.

Packing group

Not regulated as a dangerous good.

Environmental hazards

Not regulated as a dangerous good.

Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

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

Not applicable for product as supplied.

Air Transport

IATA Dangerous Goods Regulations (DGR) 63rd Edition.

SECTION 15: Regulatory information

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable.

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable.

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable.

Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable.

Chemical Safety Assessment: No data available.

SECTION 16: Other information

Full text of other abbreviations

Acute Tox: Acute toxicity.

Eye Irrit: Eye irritation.

Skin Irrit: Skin irritation.

(Q)SAR - (Quantitative) Structure Activity Relationship; ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; DIN - Standard of the German Institute for Standardisation; ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISO - International Organisation for Standardization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TRGS - Technical Rule for Hazardous Substances; UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative; DSL - Domestic Substances List (Canada); KECI - Korea Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); AICS - Australian Inventory of Chemical Substances; IECSC - Inventory of Existing Chemical Substances in China; ENCS - Existing and New Chemical Substances (Japan); ISHL - Industrial Safety and Health Law (Japan); PICCS - Philippines Inventory of Chemicals and Chemical Substances; NZIoC - New Zealand Inventory of Chemicals; TCSI - Taiwan Chemical Substance Inventory; CMR - Carcinogen, Mutagen or Reproductive Toxicant; GLP - Good Laboratory Practice.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality

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