

SECTION 1 – IDENTIFICATION

1.1 Product Identifier:

Product No: KIT-9051-250
 Product Name: PrimeWay Gel Extraction /PCR Purification Kit, 250 preps

Other means of identification:

See section 3 or

A registration number for the substance(s) does not exist because the annual tonnage does not require registration or the substance or its use is excluded from registration.

*1x 175 mL BD Buffer
 1x 45 mL Wash Buffer W1 (concentrate)
 1x 45 mL Wash Buffer W2 (concentrate)
 1x 30 mL Elution Buffer*

1.2 Recommended use of the chemical and restrictions on use:

To perform gel extraction or purification of PCR reaction using silica-based spin column
 For R&D use only. Not for pharmaceutical, household or other uses.

1.3 Supplier Information:

Axil Scientific Pte Ltd
 2 Tukang Innovation Grove,
 06-01 JTC MedTech Hub,
 Singapore 618305

Tel: +65 6775 7318

Email: custcare@axilscientific.com

Apical Scientific Sdn. Bhd.
 No. 17, Jalan BS 7/1C,
 Taman Perindustrian Bukit Serdang (BS7),
 43300 Seri Kembangan,
 Selangor Darul Ehsan, Malaysia

Tel: +603 8943 3252

Fax: +603 8943 3243

Email: custcare@apicalscientific.com

1.4 Emergency phone number:

Monday – Friday, (UTC +8:00) 8:00 a.m. to 6:00 p.m.
 +65 6775 7318 (Singapore)
 +603 8943 3252 (Malaysia & Other Countries)

SECTION 2 – HAZARDS IDENTIFICATION

2.0 GHS Classification of Complete Product



Signal Word

WARNING

Hazard Identification

H302

H412

Hazard Classification; Hazard Statement

Acute Tox. 4 oral; Harmful if swallowed.

Aquatic Chronic 3; Harmful to aquatic life with long lasting effects.

2.1 GHS Classification of the Substance or Mixture

175 mL BD Buffer



Signal Word

WARNING

Hazard Identification

H302
H402
H332
H319

Hazard Classification; Hazard Statement

Acute Tox. 4 oral; Harmful if swallowed.
Aquatic Acute Hazard 3; Harmful to aquatic life
Acute Tox. 4: Harmful if inhaled
Eye Irritation. 2; Causes serious eye irritation

45 mL Wash Buffer W1 (concentrate)

Do not need labelling as hazardous.

Signal Word

-

No hazard class

45 mL Wash Buffer W2 (concentrate)

Do not need labelling as hazardous.

Signal Word

-

No hazard class

30 mL Elution Buffer

Do not need labelling as hazardous.

Signal Word

-

No hazard class

2.2 Label Elements, including precautionary statements

175 mL BD Buffer



Signal word: WARNING

45 mL Wash Buffer W1 (concentrate)

Do not need labelling as hazardous.

Signal word: -

45 mL Wash Buffer W2 (concentrate)

Do not need labelling as hazardous.

Signal word: -

30 mL Elution Buffer

Do not need labelling as hazardous.

Signal word: -

Precautionary statement(s): -**Prevention**

- P264 Wash skin thoroughly with water after handling.
P270 Do not eat, drink, or smoke when using this product.
P273 Avoid release to the environment.
P280 Wear protective gloves/ eye protection/ face protection.

Response

- P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P330 Rinse mouth.

2.3 Other hazards**Possible hazards from physicochemical properties**

For guanidine thiocyanate CAS 593-84-0: The properties H312, H314, H332 "Harmful in contact with skin. Causes severe skin burns and eye damage. Harmful if inhaled." are not relevant, because the mixture solution is buffered to pH 4-9 (referred GHS Directive 1272/2008/EC Annex I, chapter 3.2.3.1.2.).

Information pertaining to particular risks to human and possible symptoms

Cause after oral intake, impairments of health when ingested in small quantities.

Information pertaining to particular risks to the environment

Harmful to aquatic life. Avoid contact of substance/mixture to environment.

PBT: not applicable

vPvB: not applicable

Other hazards:

No additional data available.

SECTION 3 – COMPOSITION/ INFORMATION ON INGREDIENTS THAT CONTRIBUTING TO HAZARD
3.1 Substances or 3.2 Mixtures
175 mL BD Buffer

Chemical:	Guanidinium Thiocyanate	CAS No.: 593-84-0
GHS Classification:	H302, Acute Tox. 4 oral, H312, Acute Tox. 4 derm., H314, Skin Corr. 1B, H332, Acute Tox. 4 inh., H412, Aquatic Chronic 3	
Formula:	$\text{CH}_5\text{N}_3 \cdot \text{CHNS}$	
Pseudonym:	Guanidinium rhodanide	
EC No.:	209-812-1	
Concentration:	30 - <45%	
acc. CLP (GHS):	H302, Acute Tox. 4 oral, H412, Aquatic Chronic 3	

45 mL Wash Buffer (concentrate)

No component or ingredient is contributing to hazard.

45 mL Wash Buffer (concentrate)

No component or ingredient is contributing to hazard.

30 mL Elution Buffer

No component or ingredient is contributing to hazard.

3.3 Remarks

Components of mixture that are not listed are not hazardous to health or the environment within the meaning of GHS, and/or are present below their cut-off levels.

SECTION 4 – FIRST-AID MEASURES
4.1 Description of first aid measures
General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

Eye Contact

Rinse cautiously with plenty of water. Remove contact lenses. Continue rinsing for at least 15 minutes and consult a physician.

Skin Contact

Rinse skin with soap and plenty of water. Remove contaminated clothing/ shoes and consult a physician.

Inhalation

Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

Ingestion

After oral intake, lots of water should be drunk after it has been ingested.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.3) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5 – FIRE-FIGHTING MEASURES

- 5.1 Extinguishing Media**
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- 5.2 Special Exposure Hazards**
Formation of hazardous and caustic vapor-air mixtures possible.
- 5.3 Special Fire-fighting Procedures**
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
- 5.4 Further Information**
The product itself does not burn.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- 6.1 Personal precautions, protective equipment, and emergency procedures**
Regular staff training is necessary, indicating hazards and precautions about the basis of operating instructions. Restrictions on activity must be observed. Wear protective gloves, protective clothing, and eye/face protection. Observe general safety guidelines for protection; avoid eye and skin contact.
- 6.2 Environmental precautions**
Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of contents/container in accordance with local regulations.
- 6.3 Methods and material for containment and cleaning up**
Bind any escaping liquid with inert absorbent. And dispose chemicals or excess reagents in accordance to local regulations for hazardous chemicals. Clean any contaminated equipment and floors with plenty of water. Collect small amounts of leaked liquid and flush with water into drains.
- 6.4 Reference to other sections**
NIL.

SECTION 7 – HANDLING AND STORAGE

- 7.1 Precautions for safe handling**
Handling in accordance with the test instruction, that comes with the product. Use only in well-ventilated working areas.
- 7.2 Conditions for safe storage, including any incompatibilities.**
The original product package allows a safe storage. To maintain product quality, store according to the instructions in the product labelling.
- 7.2.1 Requirements for stock rooms and containers**
Keep original product packages tightly closed during handling and storage.
- 7.3 Specific end use(s)**
Product for research use.

SECTION 8 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

175 mL BD Buffer

DNEL: [inh] 1092 µg/m³

DNEL = Derived No-Effect Level (for workers)

PNEC (fresh water): 42.4 µg/L

PNEC = Predicted No Effect Concentration

45 mL Wash Buffer (concentrate)

This component is not known to contain any substances with occupational exposure limit values.

45 mL Wash Buffer (concentrate)

This component is not known to contain any substances with occupational exposure limit values.

30 mL Elution Buffer

This component is not known to contain any substances with occupational exposure limit values.

8.2 Exposure controls

Good ventilation and extraction system in the room, floor resistant to chemicals with floor drainage and washing facilities. High level of cleanliness shall be maintained at the workplace.

8.2.1 Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dust is desired, use type N95 (US) or type P1 (EN 143) dust masks.

8.2.2 Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves must satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

8.2.3 Eye/ face protection

Use safety glasses. Where contact with the eyes is likely, use chemical safety goggles.

8.2.4 Skin protection

Recommended to avoid contamination with these hazards.

8.2.5 Personal hygiene

Eating, drinking, smoking, taking snuff and storage of food in work areas and at outdoor workplaces is prohibited. Avoid contact with the skin, eyes and clothing. Rinse any clothing on which the substance has been spilled and soak it in water. Wash hands thoroughly with soap and water when stopping work and before eating, and then apply protective skin cream.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

175 mL BD Buffer

Appearance: Liquid
pH: 4 to 5 (Neat, 25 °C)

Colour: Colourless
Relative density: 1.29 g/mL at 25°C

Odour: Acetic

45 mL Wash Buffer (concentrate)

Appearance: Liquid
pH: 7 to 8 (Neat, 25 °C)

Colour: Colourless
Relative density: No data available

Odour: Odourless

45 mL Wash Buffer (concentrate)

Appearance: Liquid
pH: 7 to 8 (Neat, 25 °C)

Colour: Colourless
Relative density: No data available

Odour: Odourless

30 mL Elution Buffer

Appearance: Liquid
pH: 8 to 9 (Neat, 25 °C)

Colour: Colourless
Specific gravity: No data available

Odour: Odourless

9.2 Other information

Data for the other parameters of the mixtures are not available, because no registration and no chemical safety report is required.

9.3 Relevant Properties of Substance Group

No data available.

SECTION 10 – STABILITY AND REACTIVITY

10.1 Reactivity

Stable under normal conditions.

10.2 Chemical stability

Store according to the recommended temperature on the container label.

10.3 Possibility of hazardous reactions

Note: Can form very reactive substances with oxidizing agents.
Possible: Contact with acids liberates toxic gas. No further data available.

10.4 Conditions to avoid

Strong heat, direct sunlight, strong oxidizers and strong reducers.

10.5 Incompatible materials

Avoid contact with strong acids or alkaline.

10.6 Hazardous decomposition products

In the original package, all parts/ all reagents are safely and separately stored. Decompositions are not observed during the expiration period under recommended conditions.

SECTION 11 – TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Quantitative data on the toxicity of this product are not available.

SECTION 12 – ECOLOGICAL INFORMATION

12.1 Toxicity

Data for the mixtures are not available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Other adverse effects

No additional data available.

SECTION 13 – DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging: Dispose-off as unused product.

SECTION 14 – TRANSPORT INFORMATION

Not classified as dangerous in the meaning of transport regulations.

UN Number

ADR/RID: -

IMDG: -

IATA-DGR: -

UN Proper Shipping Name:

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

Transport Hazard Class(es)

ADR/RID: -

IMDG: -

IATA-DGR: -

Packing Group

ADR/RID: -

IMDG: -

IATA-DGR: -

Environmental Hazards

ADR/RID: no

IMDG: marine pollutant: no

IATA-DGR: no

Contains only small quantities of hazardous substances, contains only small amounts of these substances.

Special Precaution for Users

Data not available.

SECTION 15 – REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture
Data not available.

SECTION 16 – OTHER INFORMATION

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Date of Revision: 6 June 2025

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. We shall not be held liable for any damage resulting from handling or from contact with the above product and shall not establish a legally valid contractual relationship.