

SAFETY DATA SHEET

[Required under safety and health regulations for shipping and handling]

Version: 2022
Date Updated: December 31, 2022

SECTION 1. ----- PRODUCT AND COMPANY IDENTIFICATION -----

Product Name	BB Genomic DNA Isolation Kit (Plant)(Column Based)
Product Code(s)	BDIK00300
Recommended Use	For Laboratory Research Use Only Not for Human or Animal Drug Use
Supplier	Bio Basic Asia Pacific Pte Ltd.
Address	2 International Business Park Road Strategy #01-04, Singapore 609930
Telephone	(+65) 6954 2519 (+65) 6491 5938
Email	sg@biobasic-asia.com

SECTION 2. ----- HAZARDS IDENTIFICATION -----

Guanidine Hydrochloride (Buffer W1)

Classification of the substance or mixture

Not a hazardous substance or mixture.

GHS Label elements, including precautionary statements

Not a hazardous substance or mixture.

Health hazard:	2
Flammability:	1
Reactivity:	0
Contact:	2

Hazards not otherwise classified (HNOC) or not covered by GHS – none

Potential Health Effects

Skin	Causes irritation to skin. Symptoms include redness, itching, and pain.
Eyes	Causes irritation, redness, and pain.
Ingestion	Toxic. May cause neurological disturbances. Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea.
Inhalation	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath.

Sodium Dodecyl Sulphate (Buffer PL & W1):

Classification of the substance or mixture

Not a hazardous substance or mixture

GHS Label elements, including precautionary statements



Health hazard:	1
Flammability:	3
Reactivity:	1
Contact:	3

Hazards not otherwise classified (HNOC) or not covered by GHS – none

Potential Health Effects

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Skin	Mildly irritating to skin, causes dryness and a rash on continued exposure. May cause allergic skin reactions.
Eyes	Causes irritation, redness, and pain.
Ingestion	Large doses may cause gastrointestinal distress, nausea and diarrhea.
Inhalation	Causes irritation to the respiratory tract. Symptoms may include coughing, shortness of breath. May cause allergic reaction in sensitive individuals.
Chronic Exposure	Chronic exposure may cause skin effects.
Additional Note	Persons with pre-existing skin disorders or impaired respiratory function may be more susceptible to the effects of the substance.

SECTION 3. - - - - - COMPOSITION/INFORMATION ON INGREDIENTS - - - - -

Chemical Name	CAS-No.	Weight %
Sodium Dodecyl Sulfate (Buffer PL)	151-21-3	0.5 – 2
Guanidine Hydrochloride (Buffer W1)	50-01-1	5 – 10
Sodium Dodecyl Sulfate (Buffer W1)	151-21-3	0.5 – 2

Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

SECTION 4. - - - - - FIRST-AID MEASURES - - - - -

Sodium Dodecyl Sulphate (Buffer PL & W1)

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If difficulty in breathing, give oxygen. Contact a physician.

In case of skin contact

Immediately flush skin with plenty of soap and water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

If swallowed

Give large quantities of water if available. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Note to Physician:

No data available.

Guanidine Hydrochloride (Buffer W1)

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If difficulty in breathing, give oxygen. Contact a physician.

In case of skin contact

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

In case of eye contact

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

If swallowed

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Seek medical attention immediately.

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Note to Physician:

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No data available

SECTION 5. ----- FIRE FIGHTING MEASURES -----

Extinguishing media

Suitable extinguishing media

No restriction

Special hazards arising from the substance or mixture

No data available

Advice for firefighters

No data available

Further information

Dangerous decomposition is not anticipated.

SECTION 6. ----- ACCIDENTAL RELEASE MEASURES -----

Personal precautions, protective equipment and emergency procedures

For personal protection see section 8.

Environmental precautions

No special environmental precautions required.

Methods and materials for containment and cleaning up

Actions to be taken on spillage: Dilute spilled liquids with plenty of water and adsorb.

Absorbent material: No restriction.

Actions to be taken to limit damage: Special measures to limit damage are not necessary

Reference to other sections

For disposal see section 13.

Further information

Special measures to limit damage are not necessary.

SECTION 7. ----- HANDLING AND STORAGE -----

Precautions for safe handling

Open and handle vessels carefully.

Conditions for safe storage, including any incompatibilities

Store at room temperature. Do not store together with acids.

Specific end use(s)

Apart from the uses mentioned in Section 1 no other specific uses are stipulated.

SECTION 8. ----- EXPOSURE CONTROLS/PERSONAL PROTECTION -----

Personal protective equipment

Eye/face protection

Use safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with one-way gloves.

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hygiene measures

Wash hands before and after use.

SECTION 9. ----- PHYSICAL AND CHEMICAL PROPERTIES -----

Information on basic physical and chemical properties

Appearance	Form: liquid
Odour	No data available
Odour Threshold	No data available
pH(Buffer)	8.5(PL), 7.0(W1), 7.5(W2), 8.5(E)
Miscibility with water	Immiscible (All)
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density	No data available
Water solubility	No data available
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available

Other safety information

No data available

SECTION 10. ----- STABILITY AND REACTIVITY -----

Reactivity

No data available

Chemical stability

Stable under normal conditions.

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Possibility of hazardous reactions

No data available

Conditions to avoid

Reacts with alkalis and oxidizing agents.

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Danger of toxic pyrolysis products.

Other decomposition products - No data available. In the event of fire: see section 5

SECTION 11. ----- TOXICOLOGICAL INFORMATION -----

Buffer PL

Acute toxicity

LD50 Oral - Rat – 1.288mg/kg

Buffer W1

Acute toxicity

LD50 Oral - Rat – 1.288mg/kg

LD50 Inhalation - Rat - 5.3 mg/l – 4h

LD50 Intra peritoneal - Mouse - 500 mg/kg

Skin corrosion/irritation

Irritant to skin and mucous membranes.

Serious eye damage/eye irritation

Irritant to eyes

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

No data available

SECTION 12. ----- ECOLOGICAL INFORMATION -----

Toxicity

No data available

Persistence and degradability

No data available

Bioaccumulative potential

No data available

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Mobility in soil

No data available

Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

Other adverse effects

Water hazard class: 2 (hazardous to water and ground)

SECTION 13. ----- DISPOSAL CONSIDERATIONS -----

Waste treatment methods

Product

Used reagent can be disposed in accordance with local regulations. Dispose of empty packs by local recycling or waste disposal routes

Contaminated packaging

Clean thoroughly prior to disposal.

SECTION 14. ----- TRANSPORT INFORMATION -----

DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

SECTION 15. ----- REGULATORY INFORMATION -----

TSCA (Toxic Substances Control Act): All ingredients are listed

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

SECTION 16. ----- OTHER INFORMATION -----

Further information: no limited for paper copy, just for internal uses.

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

Issuing Date: 31-Dec-2022

End of SDS