Safety Data Sheet
12X Nucleotide Base Buffer 3

SECTION 1: Identification

1.1 Product identifier

Product name	12X Nucleotide Base Buffer 3

1.2 Other means of identification
Part number 459

1.3 Recommended use of the chemical and restrictions on use
Reagent

1.4 Supplier's details

Name	Ultima Genomics, Inc.
Address	4209 Technology Dr. Fremont, CA 94538 USA
Telephone	1-510-330-5110
Email	SDS@ultimagen.com

1.5 Emergency phone number(s)

PERS 24 Hour Emergency Phone Numbers:
1-800-633-8253
1-801-629-0667

SECTION 2: Hazard identification

2.1 Classification of the substance or mixture

GHS classification

- Eye damage/irritation, Cat. 2A

2.2 GHS label elements, including precautionary statements

Pictogram



Signal word **Warning**

Hazard statement(s)

H319	Causes serious eye irritation

Precautionary statement(s)

P264	Wash hands and exposed skin thoroughly after handling.
P280	Wear eye protection/face protection.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
P337+P313	If eye irritation persists: Get medical advice/attention.

2.3 Hazards not otherwise classified (HNOC)

No data available.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable.

3.2 Mixtures

Hazardous components

Component	Concentration
Poly(oxy-1,2-ethanediyl), α-[(1,1,3,3-tetramethylbutyl)phenyl]-ω-hydroxy- (CAS no.: 9036-19-5)	**1.2% (weight)**

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

If inhaled	Remove to fresh air and promote deep breathing. Get medical attention if effects persist.
In case of skin contact	Wash with plenty of soap and water. Get medical attention if irritation or rash develops or persists.
In case of eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation persists, get medical attention.
If swallowed	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms/effects, acute and delayed

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

If inhaled	No adverse effects are normally expected.
In case of skin contact	Prolonged exposure may cause mild skin irritation. Signs/symptoms may include localized dryness, redness, swelling, and itching.
In case of eye contact	Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2 Specific hazards arising from the chemical
No data available.

5.3 Special protective actions for fire-fighters
Wear self-contained breathing apparatus for firefighting if necessary.

Further information
No data available

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Wear personal protection recommended in Section 8. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

6.2 Environmental precautions
Avoid release into the environment.

6.3 Methods and materials for containment and cleaning up
Soak up with inert absorbent material. Pick up and keep in suitable, closed containers for disposal.

Reference to other sections
For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin and eyes. Wash hands with soap and water after handling.

7.2 Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry, cool and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Specific end use(s)
Apart from the uses mentioned in section 1 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters
No applicable occupational exposure limits.

8.2 Appropriate engineering controls
Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, gas, etc.) below recommended exposure limits.

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/face protection
Safety glasses/goggles are recommended.

Skin protection
Wear protective gloves, such as nitrile gloves.

Body protection
The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection
Provide good ventilation. Respiratory protection is not required under normal use conditions.

Thermal hazards
No data available.

Environmental exposure controls
Avoid release into the environment.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Appearance/form (physical state, color, etc.)	Liquid.
Odor	Odorless.
Odor threshold	No data available.
pH	No data available.
Melting point/freezing point	~-5°C (23 °F)
Initial boiling point and boiling range	~101°C (213.8 °F)
Flash point	No data available.
Evaporation rate	No data available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability limits	No data available.
Upper/lower explosive limits	No data available.
Vapor pressure	~23.8 mm Hg at 25°C (77 °F)
Vapor density	No data available.
Relative density	No data available.
Solubility(ies)	Soluble in water.
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	Not explosive.
Oxidizing properties	Not oxidizing.

Other safety information
No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Non-reactive under normal use conditions.

10.2 Chemical stability
Stable under normal storage conditions.

10.3 Possibility of hazardous reactions
No data available.

10.4 Conditions to avoid
Keep away from incompatible materials.

10.5 Incompatible materials
Strong oxidizers, strong acids, strong bases, reactive metals.

10.6 Hazardous decomposition products
No data available.

SECTION 11: Toxicological information

Information on toxicological effects

Likely Routes of Exposure: Eye contact. Skin contact. Inhalation.

If inhaled	No adverse effects are normally expected.
In case of skin contact	Prolonged exposure may cause mild skin irritation. Signs/symptoms may include localized dryness, redness, swelling, and itching.
In case of eye contact	Causes serious eye irritation. Signs/symptoms may include redness, swelling, pain, tearing, and blurred or hazy vision.

Acute toxicity
Based on available data, classification criteria are not met

Skin corrosion/irritation
Based on available data, classification criteria are not met

Serious eye damage/irritation
Causes serious eye irritation

Respiratory or skin sensitization
Based on available data, classification criteria are not met

Germ cell mutagenicity
Based on available data, classification criteria are not met

Carcinogenicity
IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.
NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity
Based on available data, classification criteria are not met

STOT-single exposure
Based on available data, classification criteria are not met

STOT-repeated exposure
Based on available data, classification criteria are not met

Aspiration hazard
Based on available data, classification criteria are not met

SECTION 12: Ecological information

Toxicity
No data available on product.

Persistence and degradability
No data available on product.

Bioaccumulative potential
No data available on product.

Mobility in soil
No data available on product.

Results of PBT and vPvB assessment
PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

Other adverse effects
No ecological problems are to be expected when the product is handled and used with due care and attention.

SECTION 13: Disposal considerations

Disposal of the product
Disposal should be in accordance with applicable Federal, State and local laws and regulations. Local regulations may be more stringent than State or Federal requirements.

Disposal of contaminated packaging
Dispose of as unused product.

SECTION 14: Transport information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

SARA 302 Components
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 Hazards
Acute health hazard.

SARA 313 Components
This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

HMIS Rating

12X Nucleotide Base Buffer 3	
HEALTH	2
FLAMMABILITY	0
PHYSICAL HAZARD	0
PERSONAL PROTECTION	

NFPA Rating



SECTION 16: Other information

16.1 Further information/disclaimer

Date of issue: February 16, 2024.

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