



SAFETY DATA SHEET

Issue date 1 4 July2020 Version 1

1.IDENTIFICATION

Product name 10x Tag Mutant Reaction Buffer

Product No RB30

Recommended use Nucleic acid amplification

Supplier Address DNA Polymerase Technology Inc.

1508 South Grand Blvd. Saint Louis MO 63014

USA

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2.HAZARDS IDENTIFICATION

<u>Classification</u> Not a hazardous substance or mixture

GHS Label elements Not a hazardous substance or mixture

Hazard Statement

The product contains no substances which at their given concentration, are known to be hazardous to health.

Hazards not otherwise classified (HNOC) None

3.COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Ingredient	% by weight	CAS#
Tris HCI NH ₂ C(CH ₂ OH) ₃ ·HCI Tris(hydroxymethyl)aminomethane hydrochloride	6.1	1185-53-1
Ammonium sulfate (NH ₄) ₂ SO ₄	1.4	7783-20-2
Brij® 58 HO(CH ₂ CH ₂ O) ₂₀ C ₁₆ H ₃₃ Polyethylene glycol hexadecyl ether	<1	9004-95-9
Magnesium Chloride MgCl ₂	<1	7786-30-3

4.FIRST AID MEASURES

First Aid Instructions

Inhalation Remove to fresh air.

Skin contact Wash skin with soap and water.

Eye contact Flush eyes with water.

Ingestion Rinse mouth with water.

Most important symptoms and effects, both acute and delayed

No information available.

Recommendations for medical care

Treat symptomatically.

5.FIRE-FIGHTING MEASURES

Suitable extinguishing equipment

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide, as indicated by local circumstances and the surrounding environment.

Specific hazards arising from the chemical

No information available.

Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus and full protective gear.

6.ACCIDENTAL RELEASE MEASURES

Personal precautions and emergency procedures

Use of standard laborator Personal Protective Equipment (PPE) such as a lab coat, gloves, and safety glasses is recommended. No evacuation, expert consultation, or additional PPE is required for dealing with accidental release.

Environmental precautions

Do not flush this product down the drain.

Containment and cleanup

Absorb with inert absorbent material and dispose with dry waste.

7.HANDLING AND STORAGE

<u>Precautions for safe handling</u> Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage

Storage temperature -20° F

Storage Conditions Store in original containers with lids closed.

Incompatible materials unknown

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

This product contains no components with exposure limits (OSHA PELs or ACGIH TLVs)

Engineering controls

Standard lab safety components such as showers, eyewash stations, and standard ventilation systems are recommended.

Personal protection measures

Use of standard laboratory Personal Protective Equipment (PPE) such as a lab coat, gloves, and safety glasses is recommended. Keep laboratory well ventilated. Handle product in accordance with good industrial hygiene and safety practice.

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical state liquid

Appearance colorless/cloudy Odor none/mild

Vapor pressure No information available

pH 9.

Relative density No information available Melting point / freezing point No information available Water solubility No information available Solubility in other solvents No information available Boiling point / boiling range No information available Flash point No information available **Evaporation rate** No information available Flammability (solid, gas) No information available No information available Partition coefficient No information available **Auto-ignition temperature Decomposition temperature** No information available Viscosity No information available

10.STABILITY AND REACTIVITY

Reactivity No data available.

Chemical stability Stable under recommended storage conditions.

Other Possibility of hazardous reactions

No hazardous reactions are known or expected. The product is not known to react or polymerize resulting

in excess pressure, heat, or any other hazardous conditions.

Conditions to avoid

None

Incompatible materialsStrong oxidizing agents.

Hazardous decomposition products

None are known or expected.

11.TOXICOLOGICAL INFORMATION

Likely routes of exposure

Inhalation Avoid breathing vapors or mists. May cause irritation of respiratory tract.

Ingestion Avoid ingestion.

Skin contact Prolonged contact may cause redness and irritation. Repeated exposure may cause skin dryness or

cracking.

Eye contact Avoid eye contact. May cause redness and irritation.

Delayed, immediate, or chronic effects from short and long-term exposure None are known or expected.

Numerical measures of toxicity

Ingredient	% by weight	CAS#	LD50
Tris HCI NH ₂ C(CH ₂ OH) ₃ ·HCI Tris(hydroxymethyl)aminomethane hydrochloride	6.1	1185-53-1	Oral (rat) >5,000 mg/kg Dermal (rat) >5,000 mg/kg
Ammonium sulfate (NH ₄) ₂ SO ₄	1.4	7783-20-2	Oral (rat) 4,250 mg/kg Dermal (rat) 2,000 mg/kg
Brij® 58 HO(CH ₂ CH ₂ O) ₂₀ C ₁₆ H ₃₃ Polyethylene glycol hexadecyl ether	<1	9004-95-9	Oral (rat) 2,500 mg/kg
Magnesium Chloride MgCl ₂	<1	7786-30-3	Oral (rat) >5,000 mg/kg Dermal (rat) >2,000 mg/kg

Symptoms of exposure No information available.

Potential carcinogen status

NTP Report on Carcinogens Not a known or anticipated carcinogen

IARC Monographs Not a probable, possible, or confirmed carcinogen

OSHA Not listed

Product name 10x Taq Mutant Reaction Buffer Page 4 Product No RB30

12.ECOLOGICAL INFORMATION

Ecotoxicity

Marine pollutant: Components of this product known to be toxic to fish, aquatic invertebrates, algae, and/or bacteria are listed below.

Ingredient	Organism	Toxicity Data
Ammonium sulfate	Fish	LC50 (rainbow trout) 53 mg/L at 96 hours
(NH ₄) ₂ SO ₄		
CAS 7783-20-2		
	Aquatic invertebrates	EC50 (water flea) 121.7 mg/L at 48 hours
	Algae	ErC50 (fresh water algae) 2,700 mg/L at 18 days
	Bacteria	EC50 (activated sludge) 1,618 mg/L at 30 minutes

Persistence and degradabilityNo information availableBioaccumulationNo information available

Mobility from soil to groundwater No information available

Other adverse effects No information available

13.DISPOSAL CONSIDERATIONS

<u>Disposal guidelines</u> Dispose with dry waste, do not flush down drains. Refer to Section 8 for PPE recommendations.

14.TRANSPORT INFORMATION

DOT Not regulated

15.REGULATORY INFORMATION

US Federal Regulations

SARA 313

The following product components are subject to reporting requirements:

Chemical Name	CAS#	SARA 313 Threshold Value	Concentration in this product
Ammonium sulfate	7783-20-2	1.00%	1.40%

US State Regulations

California Proposition 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

Massachusetts Right To Know Components Ammonium sulphate CAS-No. 7783-20-2

Pennsylvania Right To Know Components Polyethylene glycol hexadecyl ether CAS-No. 9004-95-9

Ammonium sulphate CAS-No. 7783-20-2

Magnesium chloride CAS-No. 7786-30-3

New Jersey Right To Know Components Polyethylene glycol hexadecyl ether CAS-No. 9004-95-9

Ammonium sulphate CAS-No. 7783-20-2 Magnesium chloride CAS-No. 7786-30-3

16.OTHER INFORMATION

This document was prepared on 14July2020

Disclaimer

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End of Safety Data Sheet