

Revision date 19-Dec-2023

SAFETY DATA SHEET

Version 5

1. Identification		
Product identifier		
Product name	Q5™ High-Fidelity DNA Polymerase	
Other means of identification		
Product No	M0491	
Synonyms	None	
Recommended use of the chemical	and restrictions on use	
Recommended use	This product is for research and development only	
Restrictions on use	No information available	
Details of the supplier of the safety data sheet		
<u>Supplier Address</u> New England BioLabs 240 County Road Ipswich, MA 01938 USA		
Emergency telephone number		
Company Phone Number	978-927-5054, 800-632-5227 (toll free)	
Telefax	978-921-1350	
E-mail address	info@neb.com	
24 Hour Emergency Phone Number	Chemtrec +1 703-741-5970	

2. Hazard(s) identification

Classification

Label elements

Hazard statements

2.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.
2.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.
52.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).
52.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).
52.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

Other information

No information available.

3. Composition/information on ingredients

Substance

Not applicable.

Mixture

4. First-aid measures	
Description of first aid measures	
Inhalation	Remove to fresh air.
Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin contact	Wash skin with soap and water.
Ingestion	Rinse mouth.
Most important symptoms and ef	fects, both acute and delayed
Symptoms	No information available.
Effects of Exposure	No information available.
Indication of any immediate medical attention and special treatment needed	
Note to physicians	Treat symptomatically.

5. Fire-fighting measures

Suitable Extinguishing Media	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Large Fire	CAUTION: Use of water spray when fighting fire may be inefficient.
Unsuitable extinguishing media	Do not scatter spilled material with high pressure water streams.
Specific hazards arising from the chemical	No information available.
Explosion data Sensitivity to mechanical impac Sensitivity to static discharge	t None. None.
Special protective equipment and precautions for fire-fighters	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation.
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Methods and material for containment and cleaning up

Methods for containment	Prevent further leakage or spillage if safe to do so.
Methods for cleaning up	Pick up and transfer to properly labeled containers.

7. Handling and storage	
Precautions for safe handling	
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice.
Conditions for safe storage, including any incompatibilities	
Storage Conditions	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls/personal protection

Control parameters Exposure Limits

Appropriate engineering controls

Engineering controls

Showers Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection	No special protective equipment required.
Hand protection	No special protective equipment required.
Skin and body protection	No special protective equipment required.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. Physical and chemical properties

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Information on basic physical and o		
Physical state Appearance	Liquid Colorless	
Color	Colorless	
Odor	Mild	
Odor Odor threshold	No information available	
Odor threshold	No information available	
Property	Values_	Remarks • Method
pH	7.4	<u>Romanic motriou</u>
Melting point / freezing point	No data available	
Initial boiling point and boiling rang		
Flash point	100 °C / 212 °F	
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability or explosive	No data available	
limits		
Lower flammability or explosive	No data available	
limits		
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Relative density	No data available	None known
Water solubility	No data available	None known
Solubility(ies)	No data available	None known
Partition coefficient	No data available	None known
Autoignition temperature	392.78 °C / 739 °F	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Other information		
Explosive properties	No information available	
Oxidizing properties	No information available	
Softening point	No information available	
Molecular weight	No information available	
VOC content	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. Stability and reactivity

Reactivity	No information available.
Chemical stability	Stable under normal conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	None known based on information supplied.
Incompatible materials	None known based on information supplied.
Hazardous decomposition products None known based on information supplied.	

11. Toxicological information Information on likely routes of exposure Inhalation Specific test data for the substance or mixture is not available. Eye contact Specific test data for the substance or mixture is not available. Specific test data for the substance or mixture is not available. Skin contact Ingestion Specific test data for the substance or mixture is not available. Symptoms related to the physical, chemical and toxicological characteristics **Symptoms** No information available. Acute toxicity Numerical measures of toxicity The following values are calculated based on chapter 3.1 of the GHS document ATEmix (oral) 25,200.00 mg/kg ATEmix (dermal) 20,000.00 mg/kg ATEmix (inhalation-gas) 99,999.00 ppm 99,999.00 mg/l ATEmix (inhalation-vapor) 99,999.00 mg/l ATEmix (inhalation-dust/mist) 2.5 % of the mixture consists of ingredient(s) of unknown acute oral toxicity 2.5 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity 52.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas) 52.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor) 52.5 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist) **Component Information** Delayed and immediate effects as well as chronic effects from short and long-term exposure Skin corrosion/irritation No information available. Serious eye damage/eye irritation No information available. No information available. Respiratory or skin sensitization No information available. Germ cell mutagenicity

Carcinogenicity	No information available.
Reproductive toxicity	No information available.
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Aspiration hazard	No information available.

12. Ecological information

Ecotoxicity

Persistence and degradability	No information available.
Bioaccumulation	
Component Information	
Mobility in soil	No information available.
Other adverse effects	No information available.

13. Disposal considerations	
Waste treatment methods	
Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

14. Transport information

DOT	Not regulated	
TDG	Not regulated	
<u>MEX</u>	Not regulated	
ICAO (air)	Not regulated	
IATA	Not regulated	
IMDG	Not regulated	
RID	Not regulated	

ADR Not regulated

<u>ADN</u>

Not regulated

15. Regulatory information

Regulatory information

International Regulations

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

International Inventories

*Contact supplier for details. One or more substances in this product are either not listed on the US TSCA inventory, listed on the confidential US TSCA inventory or are otherwise exempted from inventory listing requirements

DSL/NDSL	Contact supplier for inventory compliance status.
EINECS/ELINCS	Contact supplier for inventory compliance status.
ENCS	Contact supplier for inventory compliance status.
IECSC	Contact supplier for inventory compliance status.
KECL	Contact supplier for inventory compliance status.
PICCS	Contact supplier for inventory compliance status.
AIIC	Contact supplier for inventory compliance status.
NZIOC	Contact supplier for inventory compliance status.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

- EINECS/ELINCS European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
- **ENCS** Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIOC - New Zealand Inventory of Chemicals

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical name	emical name New Jersey Massachusetts		Pennsylvania
Glycerol	Х	X	Х
56-81-5			
Ethylenediamine tetraacetic acid	Х	X	Х
60-00-4			

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information							
NFPA Health has HMIS Health has		Flammability Flammability		Instability 0 Physical hazards 0	Special hazards $\ \ -$ Personal protection $\ \ X$		
Key or legend to abbreviations and acronyms used in the safety data sheet							
Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit) Ceiling Maximum limit value * Skin designation Key literature references and sources for data used to compile the SDS Agency for Toxic Substances and Disease Registry (ATSDR) U.S. Environmental Protection Agency ChemView Database European Food Safety Authority (EFSA) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's PubMed database (NLM PUBMED) National Library of Medicine's ChemID Plus (NLM CIP) New Zealand's Chemical Classification and Information Database (CCID) New Zealand's Chemical Classification and Information Database (CCID) Organization for Economic Co-operation and Development Environment, Health, and Safety Publications Organization for Economic Co-operation and Developm							
Prepared by	Environmen	tal, Health and	Safety, 978	8-927-5054			
Revision date	19-Dec-202	3					
Revision note Disclaimer	No informati	ion available.					

Disclaimer

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