

SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of: OSHA 29 CFR 1910.1200

Document Type US - OSHA GHS

Revision date 13-Dec-2023

Version 9

| 1. Identification | |
|---|--|
| Product identifier | |
| | |
| Product name | HiFi Taq DNA Ligase |
| Other means of identification | |
| Product No | M0647 |
| 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 E-mail address 24 Hour Emergency Phone Number | 978-921-1350 info@neb.com Chemtrec +1 703-741-5970 |

2. Hazard(s) identification

Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Hazards not otherwise classified (HNOC)

Not applicable

Label elements

Hazard statements

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

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 effects, 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 impact None. | | |
| Sensitivity to static discharge | 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. |
|----------------------|------------------------------|
| | |

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 container tightly closed in a dry and well-ventilated place. | |

8. Exposure controls/personal protection

Control parameters

Exposure Limits

Other information

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

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. | |
| | | |
| 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

Information on basic physical and chemical properties

| Physical state | Liquid | |
|--|--------------------------|------------------|
| Appearance | Colorless | |
| Color | No information available | |
| Odor | None | |
| Odor threshold | No information available | |
| | | |
| Property_ | Values | Remarks • Method |
| pH | 7.4 | |
| Melting point / freezing point | No data available | None known |
| Initial boiling point and boiling rang | eNo data available | None known |
| Flash point | No data available | None known |
| 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 limits | No data available | |
| 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 | | 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. | |
| Skin contact | Specific test data for the substance or mixture is not available. | |
| Ingestion | Specific test data for the substance or mixture is not available. | |
| Symptoms related to the physical, c | hemical and toxicological characteristics | |
| Symptoms | No information available. | |
| Acute toxicity | | |
| Numerical measures of toxicity | | |
| The following values are calculated ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-gas) ATEmix (inhalation-dust/mist) ATEmix (inhalation-vapor) | based on chapter 3.1 of the GHS document 25,200.00 mg/kg 20,000.00 mg/kg 99,999.00 ppm 99,999.00 mg/l 99,999.00 mg/l | |
| Component Information | | |
| Delayed and immediate effects as w | ell as chronic effects from short and long-term exposure | |
| Skin corrosion/irritation | No information available. | |
| Serious eye damage/eye irritation | No information available. | |
| Respiratory or skin sensitization | No information available. | |
| Germ cell mutagenicity | No information available. | |

| Carcinogenicity | No information available. |
|--------------------------|---------------------------|
| | |
| Reproductive toxicity | No information available. |
| | |
| STOT - single exposure | No information available. |
| STOT reported expective | No information available. |
| STOT - repeated exposure | NO INOMALION AVAILADIE. |
| Aspiration hazard | No information available. |
| Other adverse effects | No information available. |
| Interactive effects | No information available. |

12. Ecological information

Ecotoxicity

| Persistence and degradability | No information available. |
|-------------------------------|---------------------------|
| Bioaccumulation | |
| Component Information | |
| 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 |
| MEX | Not regulated |
| ICAO (air) | Not regulated |

| IATA_ | Not regulated |
|-------|---------------|
| IMDG | Not regulated |
| RID | Not regulated |
| ADR | Not regulated |
| ADN | Not regulated |

15. Regulatory information

| International Inventories | |
|---------------------------|---|
| TSCA | Contact supplier for inventory compliance status. |
| 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 New Jersey | Massachusetts | Pennsylvania |
|--------------------------|---------------|--------------|
|--------------------------|---------------|--------------|

| Glycerol 56-81-5 | Х | | | X | Х |
|---|---|--|--|--|--|
| Water 7732-18-5 | - | | | - | Х |
| Ethylenediamine tetraacetic acid 60-00-4 | Х | | | Х | Х |
| 80-00-4 | | | | | |
| U.S. EPA Label Information | | | | | |
| EPA Pesticide Registration Nu | mber Not applica | able | | | |
| | | | | | |
| 16. Other information | | | | | |
| NFPAHealth | hazards 0 | Flammability | 1 | Instability 0 | Special hazards - |
| HMIS Health | hazards 0 | Flammability | 1 | Physical hazards 0 | Personal protection X |
| Key or legend to abbreviations | and acronyms ι | used in the safe | ety data sh | eet_ | |
| Legend Section 8: EXPOSUR | E CONTROLS/PE | RSONAL PRO | TECTION | | |
| TWA TWA (time-w Ceiling Maximum lim | eighted average) it value | * | STEL | Skin designatio | erm Exposure Limit) on |
| J.S. Environmental Protection A J.S. Environmental Protection A Food Research Journal Hazardous Substance Database International Uniform Chemical In National Institute of Technology a Australia National Industrial Chen NIOSH (National Industrial Chen NIOSH (National Institute for Occ National Library of Medicine's Ch National Library of Medicine's Ch National Library of Medicine's Pu National Toxicology Program (NT New Zealand's Chemical Classifi Organization for Economic Co-op Organization for Economic Co-op Organization for Economic Co-op Morld Health Organization | gency High Produ nformation Databa and Evaluation (N micals Notification cupational Safety a hemID Plus (NLM hbMed database (I rP) ication and Inform peration and Deve peration and Deve | action Volume Ch ase (IUCLID) ITE) and Assessmen and Health) CIP) NLM PUBMED) ation Database elopment Enviror elopment High P | nemicals nt Scheme (CCID) nment, Hea roduction V | (NICNAS) Ith, and Safety Publicat olume Chemicals Prog | |
| Prepared by | Environme 978-927-50 | ntal, Health and | Safety | | |
| Revision date | 13-Dec-202 | 23 | | | |
| Revision note Disclaimer | SDS is vali | d 3 years from r | evision dat | e. Contact info@neb.co | om tor latest revision. |
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End of Safety Data Sheet