1. Identification

1.1. Product identifier

Product No  M0267
Product name  Taq DNA Polymerase with ThermoPol® Buffer
Pure substance/mixture  Mixture

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use  This product is for research and development only
Uses advised against  No information available

1.3. Details of the supplier of the safety data sheet

Supplier Address
New England BioLabs
240 County Road
Ipswich, MA 01938
USA

For further information, please contact

Company Phone Number  978-927-5054, 800-632-5227 (toll free)
Telefax  978-921-1350
E-mail address  info@neb.com

1.4. Emergency telephone number

Europe  +1 978-380-2125
2. Hazard(s) identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

2.2. Label elements
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]
Hazard statements
This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]
EUH210 - Safety data sheet available on request

2.3. Other hazards

Other hazards
No information available

3. Composition/information on ingredients

3.1 Substances
Not applicable

3.2 Mixtures

Full text of H- and EUH-phrases: see section 16

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS No</th>
<th>Weight-%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Igepal CA-630</td>
<td>9002-93-1</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

4. First-aid measures

4.1. 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. In the case of skin irritation or allergic reactions see a physician.

Ingestion
Clean mouth with water and drink afterwards plenty of water.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms
No information available.

4.3. Indication of any immediate medical attention and special treatment needed

Note to physicians
Treat symptomatically.

5. Fire-fighting measures
5.1. Extinguishing media

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

5.2. Special hazards arising from the substance or mixture

Specific hazards arising from the chemical
No information available.

5.3. Advice for firefighters

Special protective equipment for fire-fighters
Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions
Ensure adequate ventilation.

For emergency responders
Use personal protection recommended in Section 8.

6.2. Environmental precautions

Environmental precautions
See Section 12 for additional Ecological Information.

6.3. 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
Take up mechanically, placing in appropriate containers for disposal.

Prevention of secondary hazards
Clean contaminated objects and areas thoroughly observing environmental regulations.

6.4. Reference to other sections

Reference to other sections
See section 8 for more information. See section 13 for more information.

7. Handling and storage

7.1. Precautions for safe handling

Advice on safe handling
Ensure adequate ventilation.

General hygiene considerations
Handle in accordance with good industrial hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Storage Conditions
Keep container tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s)

Identified Uses
Risk management methods [RMM]
The information required is contained in this Safety Data Sheet.
8. Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Derived No Effect Level (DNEL)  No information available.
Predicted No Effect Concentration (PNEC)  No information available.

8.2. Exposure controls

Individual protection measures, such as personal protective equipment

Eye/face protection  Wear safety glasses with side shields (or goggles).

Skin and body protection  Wear suitable protective clothing.

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.

Environmental exposure controls  No information available.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Values</th>
<th>Remarks</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Odor</td>
<td>Mild.</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Odor threshold</td>
<td>No information available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td></td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Upper flammability or explosive limits</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Lower flammability or explosive limits</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No data available</td>
<td>None</td>
<td></td>
</tr>
</tbody>
</table>

Product name  Taq DNA Polymerase with ThermoPol® Buffer  Page 4 / 10  Product No M0267
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 392.8 °C None known
Hyphen No data available None known
Kinematic viscosity No data available None known
Dynamic viscosity No data available None known
Explosive properties No information available
Oxidizing properties No information available

9.2. Other information
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

10.1. Reactivity
Reactivity No information available.

10.2. Chemical stability
Stability Stable under normal conditions.
Explosion data
  Sensitivity to mechanical impact None.
  Sensitivity to static discharge None.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions None under normal processing.

10.4. Conditions to avoid
Conditions to avoid None known based on information supplied.

10.5. Incompatible materials
Incompatible materials None known based on information supplied.

10.6. Hazardous decomposition products
Hazardous decomposition products None known based on information supplied.

11. Toxicological information

11.1. Information on toxicological effects
Information on likely routes of exposure
Product Information
  Inhalation Specific test data for the substance or mixture is not available.

Product name  Taq DNA Polymerase with ThermoPol® Buffer
Page  5 / 10
Product No  M0267
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, chemical and toxicological characteristics

Symptoms  No information available.

Numerical measures of toxicity

Acute 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 |

Unknown acute toxicity  50 % of the mixture consists of ingredient(s) of unknown toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute oral toxicity.

0 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity.

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas).

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor).

50 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist).

Toxicity

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.

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 - repeated exposure  No information available.

Aspiration hazard  No information available.
12. Ecological information

12.1. Toxicity

Ecotoxicity

Unknown aquatic toxicity

Contains 0 % of components with unknown hazards to the aquatic environment.

Product Information

12.2. Persistence and degradability

Persistence and degradability

No information available.

12.3. Bioaccumulative potential

Bioaccumulation

There is no data for this product.

Component Information

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment

12.6. Other adverse effects

Other adverse effects

No information available.

13. Disposal considerations

13.1. 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

IMDG

14.1 UN number or ID number

Not regulated

14.2 Proper shipping name

Not regulated

14.3 Transport hazard class(es)

Not regulated

14.4 Packing group

Not regulated

14.5 Marine pollutant

Not applicable

14.6 Special Provisions

None

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available

RID
14.1 UN/ID No
Not regulated

14.2 Proper shipping name
Not regulated

14.3 Transport hazard class(es)
Not regulated

14.4 Packing group
Not regulated

14.5 Environmental hazard
Not applicable

14.6 Special Provisions
None

ADR
14.1 UN number or ID number
Not regulated

14.2 Proper shipping name
Not regulated

14.3 Transport hazard class(es)
Not regulated

14.4 Packing group
Not regulated

14.5 Environmental hazard
Not applicable

14.6 Special Provisions
None

IATA
14.1 UN number or ID number
Not regulated

14.2 Proper shipping name
Not regulated

14.3 Transport hazard class(es)
Not regulated

14.4 Packing group
Not regulated

14.5 Environmental hazard
Not applicable

14.6 Special Provisions
None

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Authorizations and/or restrictions on use:
This product contains one or more substance(s) subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Restricted substance per REACH Annex XVII</th>
<th>Substance subject to authorization per REACH Annex XIV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Igepal CA-630 - 9002-93-1</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Persistent Organic Pollutants
Not applicable

Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

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

AICS
Contact supplier for inventory compliance status

Legend:
15.2. Chemical safety assessment

Chemical Safety Report
No information available

16. Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend
SVHC: Substances of Very High Concern for Authorization:

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) (AELG(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
International Uniform Chemical Information Database (IUCLID)
Japan GHS Classification
Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)
NIOSH (National Institute for Occupational Safety and Health)
National Library of Medicine's ChemID Plus (NLM CIP)
National Library of Medicine's PubMed database (NLM PUBMED)
National Toxicology Program (NTP)
New Zealand's Chemical Classification and Information Database (CCID)
Organization for Economic Co-operation and Development High Production Volume Chemicals Program
Organization for Economic Co-operation and Development Screening Information Data Set
RTECS (Registry of Toxic Effects of Chemical Substances)
World Health Organization

Revision date 08-Feb-2021
Prepared by Environmental, Health and Safety
978-927-5054
Revision note SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.

This safety data sheet complies with the requirements of:

Disclaimer
The information provided in this Safety Data Sheet is correct to the best of our knowledge and belief at the date of

Product name Taq DNA Polymerase with ThermoPol® Buffer
Page 9 / 10
Product No M0267
publication. This information is intended only as a guide for safe handling, use, processing, storage, transportation, disposal and release and should not be taken as a warranty or quality specification. The information relates only to the specific material and may not be valid for such material used in combination with any other materials or in any process unless expressly specified in the text. New England Biolabs will not be liable for any damages resulting from handling or contact with the product.

End of Safety Data Sheet