1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product name: Oligo (dT)25-Cellulose Beads
Product No: S1408

Recommended use of the chemical and restrictions on use:
Recommended use: This product is for research and development only
Uses advised against: No information available

Details of the supplier of the safety data sheet:
Supplier Address: New England BioLabs
240 County Road
Ipswich, MA 01938
USA

Company Phone Number: 978-927-5054
800-632-5227 (toll free)

Telefax: 978-921-1350
E-mail address: info@neb.com

Emergency telephone number:
Emergency telephone: 978-927-5054
800-632-5227 (toll free)
9:00am - 5:00pm Monday-Friday EST

2. HAZARDS IDENTIFICATION

Classification:
Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Label elements

Emergency Overview:
The product contains no substances which at their given concentration, are considered to be hazardous to health

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Colorless</th>
<th>Physical state</th>
<th>Liquid</th>
<th>Odor</th>
<th>Odorless</th>
</tr>
</thead>
</table>

Hazards not otherwise classified (HNOC)

Other information:
Note: No data available
4. FIRST AID MEASURES

First aid measures

General advice
No hazards which require special first aid measures.

Eye contact
None under normal use conditions.

Skin contact
None under normal use conditions.

Inhalation
None under normal use conditions.

Ingestion
None under normal use conditions.

Most important symptoms and effects, both acute and delayed
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.

Unsuitable extinguishing media
None.

Specific hazards arising from the chemical
None in particular.

Protective equipment and precautions for firefighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions
No information available.

Personal protective equipment [PPE]
Use personal protection recommended in Section 8.
Environmental precautions
See Section 12 for additional Ecological Information.

Methods and material for containment and cleaning up

Methods for containment
Not applicable.

Methods for cleaning up
Collect spillage.

### 7. HANDLING AND STORAGE

Precautions for safe handling
Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Storage temperature
No information available.

Storage Conditions
Keep/store only in original container.

Incompatible materials
None known based on information supplied.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

Exposure Guidelines
This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>NIOSH IDLH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sodium Azide</td>
<td>Ceiling: 0.29 mg/m³ Sodium azide</td>
<td>(vacated) S⁺ Ceiling: 0.1 ppm HN3</td>
<td>Ceiling: 0.1 ppm HN3</td>
</tr>
<tr>
<td>26628-22-8</td>
<td>Ceiling: 0.11 ppm Hydrazoic acid vapor</td>
<td>(vacated) Ceiling: 0.3 mg/m³ NaN3</td>
<td>Ceiling: 0.3 mg/m³ NaN3</td>
</tr>
</tbody>
</table>

NIOSH IDLH *Immediately Dangerous to Life or Health*

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
Showers. Eyewash stations.

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 and gloves.

Respiratory protection
Not applicable.

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Remarks • Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Colorless</td>
</tr>
<tr>
<td>Odor</td>
<td>Odorless</td>
</tr>
<tr>
<td>pH</td>
<td>7.5</td>
</tr>
<tr>
<td>Melting point / freezing point</td>
<td>No information available</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>No information available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No information available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No information available</td>
</tr>
<tr>
<td>Flammability Limit in Air</td>
<td>No information available</td>
</tr>
<tr>
<td>Upper flammability limit</td>
<td>No information available</td>
</tr>
<tr>
<td>Lower flammability limit</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor pressure</td>
<td>No information available</td>
</tr>
<tr>
<td>Vapor density</td>
<td>No information available</td>
</tr>
<tr>
<td>Relative density</td>
<td>No information available</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
<td>No information available</td>
</tr>
<tr>
<td>Partition coefficient</td>
<td>No information available</td>
</tr>
<tr>
<td>Autoignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Kinematic viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Dynamic viscosity</td>
<td>No information available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No information available</td>
</tr>
<tr>
<td>Softening point</td>
<td>No information available</td>
</tr>
<tr>
<td>Molecular weight</td>
<td>No information available</td>
</tr>
<tr>
<td>VOC content (%)</td>
<td>No information available</td>
</tr>
<tr>
<td>Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>No information available</td>
</tr>
<tr>
<td>Solubility in other solvents</td>
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<tr>
<td>Density</td>
<td>No information available</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No information available</td>
</tr>
</tbody>
</table>

10. STABILITY AND REACTIVITY

Reactivity
No data 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 under normal use conditions.

Product name  Oligo (dT)25-Cellulose Beads
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Product No  S1408
Specification No  No information available
11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation
No known effect.

Eye contact
No known effect.

Skin contact
No known hazard in contact with skin.

Ingestion
No known effect.

Information on toxicological effects

Symptoms
No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation
Not applicable

Serious eye damage/eye irritation
Not applicable

Irritation
No information available

Corrosivity
Not applicable

Sensitization

Skin
No information available

Respiratory
No information available

Germ cell mutagenicity
No information available

Carcinogenicity
No information available

Reproductive toxicity
No information available

Developmental toxicity
No information available

Teratogenicity
No information available

STOT - single exposure
No information available

STOT - repeated exposure
No information available

Chronic toxicity
No information available

Subchronic toxicity
No information available

Target organ effects
None known.

Neurological effects
No information available

Other adverse effects
No information available

Aspiration hazard
No information available

Numerical measures of toxicity - Product information

12. ECOLOGICAL INFORMATION

Marine pollutant
No information available

Ecotoxicity
No information available

0 % of the mixture consists of component(s) of unknown hazards to the aquatic environment.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Algae/aquatic plants</th>
<th>Fish</th>
<th>Toxicity to microorganisms</th>
<th>Crustacea</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oligo (dT)25-Cellulose Beads</td>
<td>Page 5 / 7</td>
<td>Product No S1408</td>
<td>Specification No</td>
<td>No information available</td>
</tr>
</tbody>
</table>
Persistence and degradability
No information available

Bioaccumulation
No information available

Mobility
No information available

Other adverse effects
- Ozone: No information available
- Ozone depletion potential (ODP): No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods
Disposal considerations
Use a licensed professional waste disposal service to dispose of this product. Product may be dissolved in a combustible solvent or absorbed onto a combustible material and burned by a chemical incinerator.

Contaminated packaging
Empty containers must be tripled rinsed prior to disposal.

US EPA Waste Number
P105

This product contains one or more substances that are listed with the State of California as a hazardous waste.

14. TRANSPORT INFORMATION

DOT
Not regulated

15. REGULATORY INFORMATION

International Inventories
TSCA
Complies

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

US Federal Regulations
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

Product name
Oligo (dT)25-Cellulose Beads

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Product No
S1408

Specification No
No information available
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

U.S. EPA Label Information
EPA Pesticide Registration Number  Not applicable

16. OTHER INFORMATION

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health hazards 0</th>
<th>Flammability 0</th>
<th>Instability 0</th>
<th>Special Hazard -</th>
</tr>
</thead>
<tbody>
<tr>
<td>HMIS</td>
<td>Health hazards 0</td>
<td>Flammability 0</td>
<td>Physical hazards 0</td>
<td>Personal protection -</td>
</tr>
</tbody>
</table>

Prepared by           EH&S Manager
978-927-5054
Prepared by           New England BioLabs
Issue date            No data available
Revision note         SDS is valid 3 years from revision date. Contact info@neb.com for latest revision.
Disclaimer

IMPORTANT: The information in this SDS is provided in good faith based on our knowledge as of the issue date (or subsequent revision date, if any), and is to be used only as a guide. This SDS does not constitute a guarantee (express or implied) of any kind and we make no warranties or merchantability or fitness for a particular purpose. This information relates only to the designated product as shipped and may not be valid if the product is used in combination with any other materials or is not used in accordance with our instructions. It is the responsibility of the buyer/user to ensure that its activities comply with all applicable governmental requirements. Since conditions of use of the product are not under the control of New England Biolabs, it is the duty of the buyer/user to determine the necessary conditions for the safe use of the product. New England Biolabs will not be liable for any damages resulting from handling or contact with the product.

End of Safety Data Sheet