Safety Data Sheet

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Identification of the substance or mixture

Product code 65305
Product name Dynabeads™ M-270 Streptavidin

Company/undertaking identification

Manufacturer/Supplier
Thermo Fisher Scientific Baltics UAB
V.Graiciuno 8
LT-02241 Vilnius
Lithuania
Tel.: +370 5 2602131
Fax.: +370 5 2602142

Emergency telephone number for China
For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident), call
CHEMTREC Domestic North America: 1-800-424-9300 (24 hours)
CHEMTREC International: 1-703-527-3887 (collect calls accepted)

Country specific Emergency Number (if available):

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SECTION 2: Hazards identification

GHS - Classification

Signal Word
None

Hazard pictograms
None

Health hazards
Not classified

Physical hazards
Not classified
**SECTION 4: First aid measures**

**Skin contact**
Rinse cautiously with water for several minutes. Immediate medical attention is not required.

**Eye contact**
Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

**Ingestion**
Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.

**Inhalation**
Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.

**Most important symptoms and effects, both acute and delayed**
Not Applicable

**Notes to Physician**
Treat symptomatically.
SECTION 5: Firefighting measures

Extinguishing media


Unsuitable extinguishing media: No information available.

Special hazards arising from the substance or mixture: Not known.

Advice for fire-fighters: Standard procedure for chemical fires.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation. Always wear recommended Personal Protective Equipment. Use personal protection equipment. See Section 8 for more detail.

Environmental precautions
No special environmental precautions required.

Methods and material for containment and cleaning up
Soak up with inert absorbent material.

Reference to other sections
See section 8 for more information.

SECTION 7: Handling and storage

Precautions for safe handling
Use personal protective equipment as required.

Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Specific end use(s)
Research Use Only. Not for use in diagnostic procedures.

SECTION 8: Exposure controls/personal protection

Control parameters

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>OSHA PEL</th>
<th>OSHA PEL (Ceiling)</th>
<th>ACGIH OEL (TWA)</th>
<th>ACGIH OEL (STEL)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM AZIDE</td>
<td>None</td>
<td>None</td>
<td>None</td>
<td>None</td>
</tr>
</tbody>
</table>

Engineering measures
Ensure adequate ventilation, especially in confined areas.

Exposure controls

Personal Protective Equipment

Respiratory protection
In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards.

Hand protection
Wear suitable gloves. Glove material: Compatible chemical-resistant gloves.
Eye protection
Tight sealing safety goggles

Skin and Body Protection
Wear suitable protective clothing

Hygiene measures
Handle in accordance with good industrial hygiene and safety practice

Environmental exposure controls
No special environmental precautions required.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>suspension</td>
</tr>
<tr>
<td>Odor</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point / melting range</td>
<td>°C  Mixture has not been tested</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>°C  Mixture has not been tested</td>
</tr>
<tr>
<td>Flash point</td>
<td>°C  Mixture has not been tested</td>
</tr>
<tr>
<td>Autoignition Temperature</td>
<td>°C  Mixture has not been tested</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>°C  Mixture has not been tested</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Relative density</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient:</td>
<td>No data available</td>
</tr>
<tr>
<td>n-octanol/water</td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Mixture has not been tested</td>
</tr>
<tr>
<td>Other information</td>
<td>No data available</td>
</tr>
</tbody>
</table>

SECTION 10: Stability and reactivity

Reactivity
Sodium azide may react with lead and copper plumbing to form highly explosive metal azides.

Chemical stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous reaction has not been reported.

Conditions to avoid
No information available.

Incompatible materials
No dangerous reaction known under conditions of normal use.

Hazardous decomposition products
No data available.
### SECTION 11: Toxicological information

**Information on toxicological effects**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>LD50 (oral, rat/mouse)</th>
<th>LD50 (dermal, rat/rabbit)</th>
<th>LC50 (inhalation, rat/mouse)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM AZIDE</td>
<td>= 27 mg/kg (Rat)</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

**Principal Routes of Exposure**

- **Irritation**: Conclusive but not sufficient for classification
- **Corrosivity**: Conclusive but not sufficient for classification
- **Sensitization**: Conclusive but not sufficient for classification
- **STOT - Single Exposure**: Conclusive but not sufficient for classification
- **STOT - Repeated Exposure**: Conclusive but not sufficient for classification
- **Carcinogenicity**: Conclusive but not sufficient for classification
- **Mutagenicity**: Conclusive but not sufficient for classification
- **Reproductive toxicity**: Conclusive but not sufficient for classification
- **Aspiration hazard**: Conclusive but not sufficient for classification

### SECTION 12: Ecological information

**Toxicity**

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>Freshwater Algae Data</th>
<th>Water Flea Data</th>
<th>Freshwater Fish Species Data</th>
<th>Microtox Data</th>
<th>log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM AZIDE</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
<td>No data available</td>
</tr>
</tbody>
</table>

- **Persistence and degradability**: No information available.
- **Bioaccumulative potential**: No information available.

**Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

- **Other adverse effects**: No information available.

### SECTION 13: Disposal considerations

**Waste treatment methods**

The generation of waste should be avoided or minimized wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in according to approved disposal technique. Disposal of this product, its solutions or of any by-products, shall comply with the requirements of all applicable local, regional or national/federal regulations.
SECTION 14: Transport information

IATA / ADR / DOT-US / IMDG
Not regulated in the meaning of transport regulations.

UN number Not Applicable
UN proper shipping name Not Applicable
Transport hazard class(es) Not Applicable
Packing group Not Applicable
Environmental hazards Not Applicable
Special precautions for user Not Applicable

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not Applicable.

SECTION 15: Regulatory information

<table>
<thead>
<tr>
<th>Component</th>
<th>US TSCA</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM AZIDE 26628-22-8 ( &lt; 0.1 )</td>
<td>Listed</td>
</tr>
</tbody>
</table>

US Federal Regulations

SARA 313
This product is not regulated by SARA.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No</th>
<th>Weight %</th>
<th>SARA 313 - Threshold Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM AZIDE</td>
<td>26628-22-8</td>
<td>&lt; 0.1</td>
<td>1.0</td>
</tr>
</tbody>
</table>

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)
This product does not contains HAPs.

US State Regulations

California Proposition 65
This product does not contain any Proposition 65 chemicals.

WHMIS Hazard Class
Non-controlled
This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

SECTION 16: Other information

Reason for revision SDS sections updated.
Revision number 3
Revision date 02-Mar-2017

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References

- ECHA: http://echa.europa.eu/
- LOLI database: https://www.chemadvisor.com/loli-database

“The above information was acquired by diligent search and/or investigation and the recommendations are based on
prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be
used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution.
Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held
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End of Safety Data Sheet