1. Product and Company Identification

1.1 Product identifier

Chemical Name / Trade Name: Synthetic Nucleic Acid (Oligonucleotide)
Index-No.: ---
EG-No.: ---
CAS-No.: ---
REACH-Registration No.: ---
Other Names: ---

1.2 Application of the substance

For Research and Development only

1.3 Manufacturer's details

<table>
<thead>
<tr>
<th>Manufacturer</th>
<th>Eurofins MWG Synthesis GmbH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Street / No.</td>
<td>Anzinger Straße 7a</td>
</tr>
<tr>
<td>Nat. / Post code / Town</td>
<td>D-85560 Ebersberg</td>
</tr>
<tr>
<td>Contact</td>
<td>Eurofins Genomics, Customer Support</td>
</tr>
<tr>
<td>Phone-No.</td>
<td>(+49)-8092-8289-77</td>
</tr>
<tr>
<td>Fax-No.</td>
<td>(+49)-8092-8289-21084</td>
</tr>
<tr>
<td>E-Mail</td>
<td><a href="mailto:support-eu@eurofins.com">support-eu@eurofins.com</a></td>
</tr>
</tbody>
</table>

1.4 Information in case of an emergency:

Poison Information Center Mainz: (+49)-6131-19240 (24h in German and English)

2. Hazard Identification

2.1 Classification of the substance

Classification according to Regulation (EC) 1272/2008, annex VII:
Not classified
Classification according to Directive 67/548/EEC or Directive 1999/45/EC:
Not applicable

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008 / Directive 1999/45/EC:
Not applicable

2.3 Other hazards

Warning: substance not fully tested
3. Composition / Information on Ingredients

3.1 Compound

Oligonucleotide

4. First-Aid Measures

4.1 Description of the First-Aid Measures

General advices
If health disorders occur, get medical attention

Inhalation
Get fresh air supply immediately. If irritations present, get medical attention

Skin Contact
Wash with soap and water. If irritations present, get medical attention

Eye Contact
Flush open eye with water for several minutes. If necessary, remove contact lenses. If irritations present, get medical attention.

Ingestion
Flush mouth area with water and get medical attention

Injection
Get medical attention

4.2 Most important symptoms and effects, both acute and delayed

Not known

4.3 Recommendations to physicians

For coordination of the treatment ask the Poison Information Center Mainz (see 1.4)
No specific antidote known. Treat symptomatically and supportively

5. Fire-Fighting Measures

5.1 Fire extinguishing agents

CO₂⁻ or Powder Spray, alcohol resistant Foam

5.2 Special hazards in case of fire

Do not inhale explosion or combustion gases, aerosols or powder

5.3 Advice for firefighting

Avoidance of contamination of the surfaced or ground water, sewage system or soil by firefighting water
6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, avoid dust formation, use personal protective equipment

6.2 Environmental precautions

Should not be released into the environment or sewage system

6.3 Methods for containment and cleaning up

Larger amounts should be absorb with liquid-binding material (Sand, diatomite, universal binders, acid binders, sawdust).
Disposals of the waste should be in closed bins

7. Handling and Storage

7.1 Handling

Precautions for safety handling
Use personal protective equipment (Lab coat, gloves and safety glasses)
Eating, drinking and smoking should be forbidden in relevant areas

Measures for fire- and explosion protection
Standard measures for fire protection

Measures for avoidance of dust formation or aerosols
Ensure adequate ventilation
Use fume hood while handling with large amounts

Measures for protection of the environment
Should not be released into the environment or sewage system

General hygiene measures
Use personal protective equipment

7.2 Conditions for safe storage, including any incompatibilities storage

Requirements for storage conditions
Keep container tightly closed, in a cool, dry place (≤ 4°C)

Requirements for storage rooms and containers
No special requirements
Do not store with foods, medicine or feeding stuff

Storage classification
Not applicable

7.3 Specific end use

No further relevant information available
8. **Exposure Controls / Personal Protection**

8.1 **Controlled parameters**

Not applicable

8.2 **Exposure controls**

General protective and hygienic measures

Eye / face protection

- Wear appropriate protective eye glasses (proofed by EN 166)

Skin / body protection

- Wear appropriate protective gloves (proofed by EN 374 and EN 455, Kat. 1) and clothing (Lab coat)

Respiratory protection

- In case of high dust formation wear dust mask

Protection against heat / cold

- Not applicable

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9. **Physical and Chemical Properties**

9.1 **Information on basic physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical State:</td>
<td>Solid, dissolved in water or water based buffers</td>
</tr>
<tr>
<td>Appearance:</td>
<td>Diverse</td>
</tr>
<tr>
<td>Odour:</td>
<td>odourless</td>
</tr>
<tr>
<td>Odour Threshold:</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH-value:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Melting point:</td>
<td>Diverse</td>
</tr>
<tr>
<td>Boiling point:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Self-igniting:</td>
<td>No self-igniting</td>
</tr>
<tr>
<td>Explosion limits:</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Relative density:</td>
<td>Not determined</td>
</tr>
<tr>
<td>Solubility:</td>
<td>Fully soluble in water</td>
</tr>
<tr>
<td>Explosive properties:</td>
<td>None</td>
</tr>
<tr>
<td>Oxidizing properties:</td>
<td>None</td>
</tr>
</tbody>
</table>

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10. **Stability and Reactivity**

10.1 **Reactivity**

- various

10.2 **Chemical stability**

- No additional risks for decomposition
10.3 Hazardous Reactions

Not known

10.4 Conditions to avoid

No dangerous reactions known if used according to specifications

10.5 Incompatible materials

Not known

10.6 Hazardous decomposition products

Not known

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity
Not determined

Irritation on skin
Irritations possible

Irritation on eyes
Irritating effects

Sensitization
Not determined

Mutagenic effects
Not determined

Carcinogenicity
Not determined

Reproductive effects
Not determined

Specific organ toxicity after single or repeated exposure
Not determined

12. Ecological Information

12.1 Toxicity
Not determined

12.2 Persistence and degradability
Not available

12.3 Bioaccumulative potential
Not determined

12.4 Mobility in soil
Not determined
12.5 **Results of PBT and vPvB assessment**
Not applicable

12.6 **Other adverse effects**
Water hazard class 1 (self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course, sewage system or soil.

13. **Disposal considerations**
Waste treatment methods
- Disposal must be made according to regional and national regulations
- Must not be disposed together with household garbage
- Do not allow product to reach sewage system

Contaminated packaging
- Disposal must be made according to official regulations
- Recommended cleansing agents: water, if necessary together with cleansing agents

14. **Transport Information**

14.1 **UN-Number**
None

14.2 **UN proper shipping name**
**ADR / RID**
- No hazardous good

**IMDG-Code / ICAO-TI / IATA-DGR**
- None

14.3 **Transport hazard class**
None

14.4 **Packing group**
None

14.5 **Environmental hazards**
**ADR / RID / IMDG-Code / ICAO-TI / IATA-DGR:** no
- Marine Pollutant: no

14.6 **Special precautions for user**
Not applicable

14.7 **Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code**
Not applicable
15. Regulatory Information

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

EU-Regulations:
Not applicable

National regulations:
Water hazard class
WGK I slightly hazardous for water (self-assessment)

Other relevant regulations
Not applicable

15.2 Chemical safety assessment
Has not been carried out
Warning: substance not yet fully tested

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Eurofins MWG Synthesis GmbH assumes no legal responsibility for use or reliance upon this data.