

Material Safety Data Sheet Oligonucleotide

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, Laboratory chemicals

1.3 Manufacturer's details

Manufacturer:	Eurofins Genomics Europe Synthesis GmbH
Street / No.:	Anzinger Straße 7a
Nat. / Post code / Town:	D-85560 Ebersberg
Contact:	Eurofins Genomics, Customer Care
Phone-No.:	(+49)-7531 816 068
Fax-No.:	(+49)-7531 816 081
E-Mail:	support-eu@eurofins.com

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:
No information available

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:
No information available

2.2 Label elements

Labelling according to Regulation (EC) 1272/2008 / Directive 1999/45/EC:
No information available

2.3 Other hazards

No information available

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, seek medical attention

Inhalation

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

Skin Contact

Wash with soap and water. If irritations present, seek medical attention

Eye Contact

Rinse opened eye for several minutes under running water and seek medical attention. Immediately remove contact lenses, if any, and rinse eyes under running water for several minutes with eyelid open and seek medical attention.

Ingestion

Flush mouth area with water and seek medical attention

Injection

Seek medical attention

4.2 Most important symptoms and effects, both acute and delayed

No information available

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 absorbed 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

Handle the product according to good laboratory, industrial, safety, and hygiene practice

Precautions for safety handling

Use personal protective equipment (Lab coat, gloves and safety glasses)

Eating, drinking and smoking is 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

The following stabilities apply under appropriate storage conditions i.e., light protected in a tightly closed container, no freeze/thaw-cycles:

<i>Oligo Type</i>	<i>Temperature</i>	<i>Dissolved in H₂O</i>	<i>Lyophilized / Dry</i>	<i>Comment</i>
Unmodified Oligonucleotides	Ambient (+18°C to +22°C)	1 month	36 months	
	Chilled (+2°C to +8°C)	6 months	36 months	
	Frozen (-25°C to -15°C)	36 months	36 months	
Modified Oligonucleotides	Frozen (-25°C to -15°C)	n.a.	12 months	Stability can vary depending on modification type

Warranty of up to three years can only be guaranteed for samples that are properly stored.

Requirements for storage rooms and containers

No special requirements
Do not store with foods, medicine or feeding stuff

Storage classification

No information available

7.3 Specific end use

No information available

Protection against heat / cold
Not applicable

8. Exposure Controls / Personal Protection

8.1 Controlled parameters

Does not contain substances with occupational exposure limits

8.2 Exposure controls

General protective and hygienic measures

Eye / face protection

Wear appropriate protective eye glasses (proofed by EN 166)

Skin / body protection

Commercially available protective gloves (tested according to EN 374)

Glove material: Nitrile rubber (NBR)

material thickness: 0,11 mm

Breakthrough time: > 480 min (Level 6)
wear lab coats

Respiratory protection
In case of high dust formation wear dust mask

Protection against heat / cold
Not applicable

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Solid, dissolved in water or water based buffers
Appearance	Various
Odor	Odorless
Odor Threshold	No information available
pH-Value	No information available
Melting Point / Freezing point	Various
Boiling point / Boiling range	No information available
Flash Point	No information available
Flammability	Not flammable
Explosion limits	No explosion hazard
Relative density	No information available
Solubility	Fully soluble in water
Explosive properties	None
Oxidizing properties	None

10. Stability and Reactivity

10.1 Reactivity

No information available

10.2 Chemical stability

No information available

10.3 Hazardous Reactions

No information available

10.4 Conditions to avoid

No information available

10.5 Incompatible materials

No information available

10.6 Hazardous decomposition products

No information available

11. Toxicological Information

11.1 Acute toxicity

No information available

11.2 Irritation on skin

No information available

11.3 Irritation on eyes

No information available

11.4 Skin / respiratory sensitization

No information available

11.5 Germ cell mutagenicity

No information available

11.6 Carcinogenicity

No information available

11.7 Reproductive toxicity

No information available

11.8 Specific organ toxicity by single or repeated exposure

No information available

12. Ecological Information

12.1 Toxicity

No information available

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

No information available

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

13. Disposal considerations

Waste treatment

Disposal according to official regulations
Do not dispose of in household waste
Do not allow to enter sewage system

Treatment of contaminated packaging

Disposal according to official regulations
Recommended cleaning agents: water, if necessary together with the addition of cleaning 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

No information available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

No information available

15. Regulatory Information

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

EU-regulations:

Not applicable; product is not listed in Directive 98/24/EC; No. 1907/2006 (REACH) Annex XIV and Annex XVII

National regulations:

Water hazard class
WGK I slightly hazardous for water

15.2 Chemical safety assessment

The product has not been subjected to a chemical safety assessment

16. Other information

The information is based on the present state of our knowledge, but does not constitute a guarantee of product properties, does not claim to be complete and does not establish a contractual legal relationship.

Eurofins Genomics Europe Synthesis GmbH excludes any liability for damage that may occur when handling or in contact with these chemicals.