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|---|---------------------------|--|
| Campus Ebersberg                              | F_HSE_MSDS-plasmidDNA_2.0 |  eurofins<br>Genomics |
| <b>Material Safety Data Sheet plasmid DNA</b> |                           | 1 / 7  |

## 1. Product and Company Identification

### 1.1 Product identifier

Chemical Name / Trade Name: Synthetic gene or other "insert DNA" subcloned into a plasmid  
 Index-No.: ---  
 EG-No.: ---  
 CAS-No.: 9007-49-2  
 REACH-Registration No.: ---  
 Other Names: ---

### 1.2 Application of the substance

For Research and Development

### 1.3 Manufacturer's details

|                                 |                                     |
|---------------------------------|-------------------------------------|
| <b>Manufacturer:</b>            | Eurofins Medigenomix GmbH           |
| <b>Street / No.:</b>            | Anzinger Straße 7a                  |
| <b>Nat. / Post code / Town:</b> | D-85560 Ebersberg                   |
| <b>Contact:</b>                 | Eurofins Genomics, Customer Support |
| <b>Phone-No.:</b>               | (+49)-8092-8289-77                  |
| <b>Fax-No.:</b>                 | (+49)-8092-8289-21084               |
| <b>E-Mail:</b>                  | 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:  
 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

|  |                           |  |
|--|---------------------------|--|
| Campus Ebersberg                       | F_HSE_MSDS-plasmidDNA_2.0 |  eurofins<br>Genomics |
| Material Safety Data Sheet plasmid DNA |                           | 2 / 7  |

### 3. Composition / Information on Ingredients

#### 3.1 Compound

Polymer (circular double-stranded DNA)

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### 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

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### 5. Fire-Fighting Measures

#### 5.1 Fire extinguishing agents

CO<sub>2</sub>- 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

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|   |                           |  |
|---|---------------------------|--|
| Campus Ebersberg                              | F_HSE_MSDS-plasmidDNA_2.0 |  eurofins<br>Genomics |
| <b>Material Safety Data Sheet plasmid DNA</b> |                           | 3 / 7  |

## 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 ( $\leq 4^{\circ}\text{C}$ )

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

|   |                           |  |
|---|---------------------------|--|
| Campus Ebersberg                              | F_HSE_MSDS-plasmidDNA_2.0 |    Genomics |
| <b>Material Safety Data Sheet plasmid DNA</b> |                           | 4 / 7  |

## 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

## 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:           | Diverse  |
| Odour:                | odourless  |
| Odour Threshold       | Not determined                                   |
| pH-value:             | Not determined                                   |
| Melting point:        | Diverse  |
| Boiling point:        | Not determined                                   |
| Flash Point:          | Not applicable                                   |
| Self-igniting:        | No self-igniting                                 |
| Explosion limits:     | Not applicable                                   |
| Relative density:     | Not determined                                   |
| Solubility:           | Fully soluble in water                           |
| Explosive properties: | None   |
| Oxidizing properties: | None   |


## 10. Stability and Reactivity

### 10.1 Reactivity

various

### 10.2 Chemical stability

No additional risks for decomposition

|   |                           |   |
|---|---------------------------|---|
| <b>Campus Ebersberg</b>                       | F_HSE_MSDS-plasmidDNA_2.0 | <br>Genomics |
| <b>Material Safety Data Sheet plasmid DNA</b> |                           | 5 / 7   |

### 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

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|---|---------------------------|--|
| Campus Ebersberg                              | F_HSE_MSDS-plasmidDNA_2.0 |    Genomics |
| <b>Material Safety Data Sheet plasmid DNA</b> |                           | 6 / 7  |

#### 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

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|---|---------------------------|---|
| Campus Ebersberg                              | F_HSE_MSDS-plasmidDNA_2.0 | <br>Genomics |
| <b>Material Safety Data Sheet plasmid DNA</b> |                           | 7 / 7   |

## 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 Medigenomix GmbH assumes no legal responsibility for use or reliance upon this data.