

# Material Safety Data Sheet plasmid DNA

## 1 Product and Company Identification

### 1.1 Product identifier

- Chemical Name / Trade Name: Synthetic DNA vector construct
- Customs Tariff Nr / HS-Code: 2934 999

### 1.2 Relevant identified uses of the substance

For Research and Development

### 1.3 Manufacturer details

<b>Manufacturer:</b>	Eurofins Genomics Europe Pharma & Diagnostics Products & Services Synthesis GmbH
<b>Street / No.:</b>	Anzinger Straße 7a
<b>Nat. / Post code / Town:</b>	D-85560 Ebersberg
<b>Contact:</b>	Eurofins Genomics, Customer Care
<b>Phone-No.:</b>	(+49)- 8092 3379800
<b>E-Mail:</b>	<a href="mailto:support-eu@genomics.eurofinseu.com">support-eu@genomics.eurofinseu.com</a>

### 1.4 Information in case of an emergency

Poison Information Centre 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 tested

## 3 Composition / Information on Ingredients

### 3.1 Compound

Synthetic (circular double-stranded DNA) with synthetic gene

## 4 First Aid Measures

### 4.1 Description of the First Aid Measures

General advice: In case of adverse health effects, seek medical attention

Type of Exposure	Measure
Inhalation	Move the affected person to fresh air immediately. If symptoms occur, seek medical attention
Skin Contact	Wash affected area thoroughly with soap and water. If skin irritation occurs, seek medical attention.
Eye Contact	Rinse eyes cautiously with running water for several minutes, keeping eyelids open. Remove contact lenses if present. Seek medical attention.
Ingestion	Rinse mouth with water. Do not induce vomiting. Seek medical attention.
Injection / Puncture	Seek medical attention immediately.

### 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 Firefighting Measures

### 5.1 Fire extinguishing agents

- CO<sub>2</sub>-extinguisher
- Dry powder extinguisher / extinguishing agent
- alcohol resistant foam

## 5.2 Special hazards in case of fire

- Do not inhale gases generated by explosion or combustion
- Do not inhale aerosols or dust

## 5.3 Advice for firefighting

Avoid contamination of surface water, groundwater, sewage systems 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 to the environment or sewage system

## 6.3 Methods for containment and cleaning up

Larger quantities should be absorbed with liquid-binding material (sand, diatomaceous earth, universal binders, acid binders, sawdust) and disposed of in closed containers.

# 7 Handling and Storage

## 7.1 Precautions for safe handling / Handling of the product in accordance with good laboratory, occupational and hygiene practices

- Precautions for safe handling
  - Use appropriate personal protective equipment (lab coat, gloves, safety glasses).
  - Eating, drinking, and smoking are prohibited in areas where the substance is handled.
- Fire and explosion protection measures
  - Follow standard measures for fire protection.
  - Keep away from ignition sources; do not smoke.
- Measures to prevent dust or aerosol formation
  - Ensure adequate ventilation
  - Use a fume hood when handling large quantities

## 7.2 Conditions for safe storage, including any incompatibilities storage

- Requirements for storage conditions
  - Keep container tightly closed, in a cool, dry place ( $\leq 4^{\circ}\text{C}$ )
  - For long term storage  $-20^{\circ}\text{C}$  is recommended
- 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

# 8 Exposure Controls / Personal Protection

## 8.1 Controlled parameters

Contains no substances with occupational exposure limits

## 8.2 Exposure controls

- General protective and hygienic measures
- Eye / face protection: Wear appropriate protective eyeglasses (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 suitable dust mask
- Protection against heat / cold: Not applicable

## 9 Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

Property	Value / Description
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
  - Dispose of in accordance with local, regional, and national regulations
  - Do not dispose of in household waste
  - Do not allow to enter sewage system
- Treatment of contaminated packaging
  - Dispose of in accordance with local, regional, and national regulations
  - Recommended cleaning agents: water, if necessary with the addition of appropriate detergents

## 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

##### Identification of environmentally hazardous substances

- 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 / legislation specific 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

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 Genomics Europe Pharma & Diagnostics Products & Services Synthesis GmbH assumes no legal responsibility for use or reliance upon this data.

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