

# Material Safety Data Sheet plasmid DNA

## 1 Product and Company Identification

### 1.1 Product identifier

- Chemical Name / Trade Name: Synthetic gene or other "DNA insert" subcloned into a vector
- Customs Tariff Nr / HS-Code: 2934 9990

### 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: 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

Warning: substance not tested

### 3 Composition / Information on Ingredients

#### 3.1 Substance

Synthetic (circular double-stranded DNA) with synthetic gene or other DNA insert

### 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 Fire-Fighting 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 safety 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

- Environmental protection measures
  - Prevent release to the environment, surface water, groundwater, or sewage systems
- 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 ( $\leq 4^{\circ}\text{C}$ )
  - 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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