

# Material Safety Data Sheet

According to Regulation (EC) No. 1907/2006  
Version 1.0, Revision Date: 31.08.2018



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## 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1 Product identifier

Product name: Fuse-It-mRNA easy (Fusogenic solution)  
Product number: 60505, 60506  
REACH No.: A registration number is not available for this mixture as the mixture or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses: For research use only

### 1.3 Details of the supplier of the material safety data sheet

Company: ibidi GmbH  
Am Klopferspitz 19  
82152 Martinsried  
Germany  
Telephone: +49-89-5204617-0  
Fax: +49-89-5204617-59  
E-mail address: msds@ibidi.de

### 1.4 Emergency telephone number

Emergency Phone: +49-89-5204617-0  
(Business hours from Monday till Friday between 8 am and 5 pm (UTC+1h))

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## 2 HAZARD IDENTIFICATION

### 2.1 Classification of the substance or mixture

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.2 Label elements

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

### 2.3 Other hazards

None

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## 3 COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Mixtures

No components need to be disclosed according to the applicable regulations.

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## 4 FIRST AID MEASURES

### 4.1 Description of first aid measures

#### *If inhaled*

If breathed in, move person into fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If necessary seek medical advice.

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## ***In case of skin contact***

In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes.  
In case of skin reactions, consult a physician.

## ***In case of eye contact***

Remove contact lenses. Immediately flush eyes with plenty of flowing water for at least 20 minutes, also under the eyelids. If necessary seek medical advice.

## ***If swallowed***

Do NOT induce vomiting unless directed to do so by medical personal. Never give anything by mouth to an unconscious person. Rinse mouth with water. If malaise develops, call a physician.

## **4.2 Most important symptoms and effects, both acute and delayed**

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

## **4.3 Indication of any immediate medical attention and special treatment needed**

no data available

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## **5 FIREFIGHTING MEASURES**

### **5.1 Extinguishing media**

#### ***Suitable extinguishing media***

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **5.2 Special hazards arising from the substance or mixture**

no data available.

### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting if necessary.

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## **6 ACCIDENTAL RELEASE MEASURES**

### **6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

### **6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

### **6.3 Methods and material for containment and cleaning up**

Dilute spilled liquid with plenty of water. Wipe up with absorbent material.

### **6.4 Reference to other sections**

For disposal see section 13.

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## **7 HANDLING AND STORAGE**

### **7.1 Precautions for safe handling**

For precautions see section 2.2.

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

Keep in properly labeled containers. Keep container tightly closed.  
Store at 4°C for short time storage. For storage of up to 12 month store at -20°C.

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## 7.3 Specific end use(s)

Refer to the instruction for proper and intended use.

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

**Components with workplace control parameters**

### 8.2 Exposure controls

#### **Appropriate engineering control**

Handle in accordance with good laboratory hygiene and safety practice.

#### **Personal protective equipment**

##### *Eye protection*

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### *Skin protection*

Handle with gloves. The glove material has to be impermeable and resistant to the product. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with the product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands.

##### *Body protection*

Wear lightweight protective clothing.

##### *Respiratory protection*

No special protective equipment required.

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form: liquid Color: Slightly blue or red depending on added labeling dye
b) Odor	odorless
c) Odor Threshold	not available
d) pH	7,4
e) Melting point/Freezing point	not available
f) Initial boiling point and boiling range	not available
g) Flash point	not applicable
h) Evaporation rate	not available
i) Flammability (solid, gas)	not available
j) Upper/lower flammability or explosive limits	not available
k) Vapor pressure	not available
l) Vapor density	not available
m) Density at 20°C	approximately 1 g/cm <sup>3</sup>
n) Solubility	Suspension in water, fully miscible in organic solvent
o) Partition coefficient: n-octanol/water	not available
p) Auto-ignition temperature	Product is not self-igniting
q) Decomposition temperature	not available
r) Viscosity	not available
s) Explosive Properties	not available

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t) Oxidizing properties

not available

## 9.2 Other information

no data available

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## 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

No dangerous reactions known under conditions of normal use, handling and storage.

### 10.2 Chemical stability

Product is stable under normal storage conditions and if used according to specifications.

### 10.3 Possibility of hazardous reactions

No dangerous reactions known under conditions of normal use, handling and storage.

### 10.4 Conditions to avoid

no data available

### 10.5 Incompatible materials

no data available

### 10.6 Hazardous decomposition products

No dangerous decomposition products are known if used according to specifications.

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## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### *Acute toxicity*

no data available

#### *Skin corrosion/irritation*

no data available

#### *Serious eye damage/eye irritation*

no data available

#### *Respiratory or skin sensitization*

no data available

#### *Germ cell mutagenicity*

no data available

#### *Carcinogenicity*

no data available

#### *Reproductive toxicity*

no data available

#### *Specific target organ toxicity – single exposure*

no data available

#### *Specific target organ toxicity – repeated exposure*

no data available

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## **Aspiration hazard**

no data available

## **Potential health effects**

no data available

## **Signs and Symptoms of Exposure**

no data available

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## **12 ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

no data available

### **12.2 Persistence and degradability**

no data available

### **12.3 Bioaccumulative potential**

no data available

### **12.4 Mobility in soil**

no data available

### **12.5 Results of PBT and vPvB assessment**

no data available

### **12.6 Other adverse effects**

no data available

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## **13 DISPOSAL CONSIDERATIONS**

### **13.1 Waste treatment methods**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

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## **14 TRANSPORT INFORMATION**

### **14.1 UN number**

ADR/RID: -

IMDG: -

IATA: -

### **14.2 UN proper shipping name**

ADR/RID: Not dangerous good

IMDG: Not dangerous good

IATA: Not dangerous good

### **14.3 Transport hazard class(es)**

ADR/RID: -

IMDG: -

IATA: -

### **14.4 Packing group**

ADR/RID: -

IMDG: -

IATA: -

### **14.5 Environmental hazards**

ADR/RID: no

IMDG Marine pollutant: no

IATA: no

### **14.6 Special precautions for user**

no data available

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**14.7 Transport in bulk according to Annex of MARPOL73/78 and the IBC Code**  
no data available

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## 15 REGULATORY INFORMATION

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

#### ***EU regulation***

This material safety datasheet complies with the requirements of Regulation (EC) No 1907/2006.

#### ***U.S. Federal Regulations***

TSCA inventory: This product is being sent to you as a Research and Development product as defined by the Toxic Substances Act (TSCA) of 1976. Due to TSCA's R&D exemption, this product is not listed on the U.S. EPA's Toxic Substances Control Act (TSCA's) inventory. As a TSCA exempt R&D substance, this product must be used by or directly under the supervision of a technically qualified individual(s) as defined by TSCA. This product must not be used for commercial purposes or in formulations used for commercial purposes.

### 15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

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## 16 OTHER INFORMATION

#### ***Abbreviations and acronyms***

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG	International Maritime Code for Dangerous Goods
IATA	International Air Transport Association
PBT	persistent, bioaccumulative, toxic
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very persistent, very bioaccumulative

#### ***Further Information***

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as guide. All materials and mixtures may present unknown hazards and should be used with caution. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.