

# Safety Data Sheet

## section 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

**Trade name/designation** : Gene releaser.  
**Article No (user)** : KA-0010-10 ; KA-0010-40.

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

**Relevant identified uses** : For research or laboratory use only. Not to be administered to humans or used for medical diagnostics.  
**Uses advised against** : No data available.

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

**Supplier** : **Name:** Kaneka Eurogentec S.A.  
**Street:** Rue Bois Saint-Jean, 5  
**Postal code/City:** 4102 Seraing  
**Country:** Belgium  
**Telephone:** 0032 (0)4 372 74 00  
**Telefax:** 0032 (0)4 372 75 00  
**E-mail:** SDS@eurogentec.com

### 1.4 Emergency Telephone Number

Contact your local poison center. See section 16.7.

## section 2 Hazards identification

### 2.1 Classification of the substance or mixture

**Hazards identification:** This mixture is not classified as dangerous.

### 2.2 Label elements

**Labelling**  
**Hazard pictograms**  
**Signal word**

### 2.3 Other hazards

Not available

## section 3 Composition/information on ingredients

### 3.2 Mixtures

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

Substance	Concentration (%)	Specific concentration limits	Classification
<b>Glycerol</b>			
CAS N°	56-81-5	C ≤ 50.0%	
EC N°	200-289-5		
IDX N°			

### 3.3 Remark

Not available

## section 4 First aid measures

### 4.1 Description of first aid measures

**General information:**

When in doubt or if symptoms are observed, get medical advice.

**Following inhalation:**

No special measures are necessary.

Provide fresh air.

**Following skin contact:**

Wash with soap and water.

**Following eye contact:**

In case of eye irritation consult an ophthalmologist.

Rinse immediately carefully and thoroughly with eye-bath or water.

**Following ingestion:**

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

**Self-protection of the first aider:**

No special measures are necessary.

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

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

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

**Notes for the doctor:**

Treat symptomatically.

## section 5 Firefighting measures

## 5.1 Extinguishing media

### Suitable extinguishing media:

Foam.  
Extinguishing powder.  
Carbon dioxide (CO<sub>2</sub>).  
Sand.

### Unsuitable extinguishing media:

Strong water jet.

## 5.2 Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

## 5.3 Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

## 5.4 Additional information

Do not inhale vapors and fumes.  
Co-ordinate fire-fighting measures to the fire surroundings.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen.  
Use water spray jet to protect personnel and to cool endangered containers.  
Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

# section 6 Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

No special measures are necessary.  
Use appropriate respiratory protection.  
Provide adequate ventilation.

## 6.2 Environmental precautions

Ensure that waste is collected and contained.  
Contain leaks or spills within cabinets with removable trays.

## 6.3 Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal.  
Collect in closed and suitable containers for disposal.  
Absorb with liquid-binding material ( e.g. sand, diatomaceous earth, acid- or universal binding agents).  
Wipe up with absorbent material (eg. cloth, fleece).

## 6.4 Reference to other sections

Safe handling: see section 7.  
Disposal: see section 13.  
Personal protection equipment: see section 8.

## 6.5 Additional information

Not available

## section 7 Handling and Storage

### 7.1 Precautions for safe handling

#### PROTECTIVE MEASURES:

No special measures are necessary.

Use only in well-ventilated areas.

If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means.

Provide adequate ventilation as well as local exhaustion at critical locations.

Vapours/aerosols should be exhausted directly at the point of origin.

#### Advices on general occupational hygiene:

Wash hands before breaks and after work.

Remove contaminated, saturated clothing.

Work in well ventilated zones or use proper respiratory protection.

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

Keep container tightly closed in a dry, cool, and well-ventilated place.

Keep container in upright position in order to prevent leakage.

#### Requirements for storage rooms and vessels:

Ensure adequate ventilation of the storage area.

Store at -20°C tightly closed.

### 7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

## section 8 Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits:

Substance	Value	Unit	Type
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No data available

#### Biological limit values:

Not available

#### Exposure limits at intended use:

Not available

#### Remark:

Not available

### 8.2 Exposure controls

#### Appropriate engineering controls:

Provide adequate ventilation as well as local exhaustion at critical locations.

#### Individual protection measures, such as personal protective equipment:



Eye/face protection

: Suitable eye protection:  
Dust protection eye glasses.

<b>Skin protection</b>	: <b>Hand protection:</b> <b>Suitable gloves type:</b> Disposable gloves. <b>Body protection:</b> <b>Suitable protective clothing:</b> Lab coat.
<b>Respiratory protection</b>	: <b>Respiratory protection necessary at:</b> If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn. <b>Suitable respiratory protection apparatus:</b> Wear respiratory protection. <b>Remark:</b> The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, self-contained breathing apparatus must be used. Observe the wear time limits as specified by the manufacturer. Use only respiratory protection equipment with CE-symbol including four digit test number.
<b>Environmental exposure controls:</b>	No special measures are necessary.
<b>Consumer exposure controls:</b>	Not available

### 8.3 Additional information

Not available

## section 9 Physical and chemical Properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	: Liquid
<b>Colour</b>	: Colorless
<b>Odour</b>	: Odorless
<b>Odour threshold</b>	: Not available
<b>pH</b>	: Not available
<b>Melting point/freezing point</b>	: Not available
<b>Initial boiling point and boiling range</b>	: Not available
<b>Flash point</b>	: Not available
<b>Evaporation rate</b>	: Not available
<b>Flammability</b>	: Not available
<b>Upper/lower flammability or explosive limits</b>	: Not available
<b>Vapour pressure</b>	: Not available
<b>Vapour density</b>	: Not available
<b>Relative density</b>	: Not available
<b>Solubility(ies)</b>	: Not available
<b>Partition coefficient n-octanol/water (log value)</b>	: Not available
<b>Auto-ignition temperature</b>	: Not available
<b>Decomposition temperature</b>	: Not available
<b>Kinematic viscosity</b>	: Not available
<b>Explosive properties</b>	: Not available
<b>Oxidising properties</b>	: Not available
<b>Solubility in other Solvents</b>	: Not available

Log Kow : Not available  
Particle characteristics : Not available

## 9.2 Other safety information

# section 10 Stability and Reactivity

## 10.1 Reactivity

No data available.

## 10.2 Chemical stability

The product is stable when stored at normal ambient temperatures.

## 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

## 10.4 Conditions to avoid

No data available.

## 10.5 Incompatible materials

No data available.

## 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## 10.7 Additional information

Not available

# section 11 Toxicological information

## 11.1 Acute oral toxicity

The product is not classified.

### Data for mixture:

Not available

### Substances:

Not available

## 11.2 Acute dermal toxicity

The product is not classified.

### Data for mixture:

Not available

### Substances:

Not available

### 11.3 Acute inhalation toxicity

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.4 Skin corrosion/irritation

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.5 Serious eye damage/irritation

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.6 Skin sensitisation

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.7 Specific target organ toxicity (repeated exposure)

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.8 Specific target organ toxicity (single exposure)

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.9 Carcinogenicity

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.10 Reproductive toxicity

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.11 Germ cell mutagenicity

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.12 Sensitisation to the respiratory tract

The product is not classified.

**Data for mixture:**

Not available

**Substances:**

Not available

### 11.13 Additional information

Not available

## section 12 Ecological information

### 12.1 Toxicity

Based on available data, the classification criteria are not met.

**Data for mixture:**

Not available

**Substances:**

Not available

### 12.2 Persistence and degradability

The product has not been tested.

**Data for mixture:**

Not available

**Substances:**

Not available

### 12.3 Bioaccumulative potential

The product has not been tested.

**Data for mixture:**

Not available

**Substances:**

Not available

### 12.4 Mobility in soil

The product has not been tested.

**Data for mixture:**



Not available

**Substances:**

Not available

### 12.5 Results of PBT and vPvB assessment

No data available.

### 12.7 Other adverse effects

No data available.

### 12.8 Additional ecotoxicological information

Not available

## section 13 Disposal considerations

### 13.1 Waste treatment methods

**Product/Packaging disposal:**

**Waste codes/waste designations according to EWC/AVV:**

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

**Waste treatment options:**

**Appropriate disposal/Product:**

Dispose of waste according to applicable legislation.

**Appropriate disposal/Package:**

Non-contaminated packages must be recycled or disposed of.

Contaminated packing must be completely emptied and can be reused after proper cleaning.

Packing which cannot be properly cleaned must be disposed of.

Dispose of waste according to applicable legislation.

**Remark:**

For recycling, contact manufacturer.

### 13.2 Additional information

Not available

## section 14 Transport information

### 14.1 UN number

The product is not hazardous according to the applicable transport regulations.

### 14.2 UN proper shipping name

Not regulated.

### 14.3 Transport hazard class(es)

Not regulated.

### 14.4 Packing group

Not regulated.

#### 14.5 Environmental hazards

Not regulated.

#### 14.6 Special precautions for user

Not regulated.

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

Not regulated.

#### 14.8 Additional information

Not available

## section 15 Regulatory information

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

### 15.2 Chemical Safety Assessment

For this substance/mixture a chemical safety assessment is not required.

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

For this substance/mixture a chemical safety assessment has been elaborated.

For this mixture, the relevant data of the Substances' Chemical safety assessment are integrated in the sections of the SDS.

### 15.3 Additional information

Not available

## section 16 Other information

### 16.1 Indication of changes

Not applicable (first edition of the MSDS).

### 16.2 Abbreviations and acronyms

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

### 16.3 Key literature references and sources for data

No data available.

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

### 16.5 Relevant R-, H- and EUH-phrases (Number and full text)

### 16.6 Training advice

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

### 16.7 Additional information

Takyon™ is a trademark of Kaneka Eurogentec S.A

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Emergency phone number:

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The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.