

# Safety Data Sheet

section

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

### 1.1 Product identifier

**Trade name/designation** : SmartPure Plasmid Kit, DNA Purification Kit.  
**Article No (user)** : SK-PLPU-100.

### 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 diagnosis.  
**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 centre. See section 16.7.

section

## 2 Hazards identification

### 2.1 Classification of the substance or mixture

#### Hazards identification:

H302	Acute Tox. 4 ORAL	Harmful if swallowed
H315	Skin Irrit. 2	Causes skin irritation.
H318	Eye Dam. 1	Causes serious eye damage
H319	Eye Irrit. 2	Causes serious eye irritation
H400	Aquatic Acute 1	Very toxic to aquatic life.
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

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

Danger

**Hazard Statements**

H302	Harmful if swallowed
H315	Causes skin irritation.
H318	Causes serious eye damage
H319	Causes serious eye irritation
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

**2.3 Other hazards**

Not available

**section 3 Composition/information on ingredients****3.2 Mixtures**

In accordance with the product knowledge, no nanomaterials have been identified.

4-(1,1,3,3-tert-methylbutyl)phénol, CAS: 9002-93-1.

Substance	Concentration (%)	Specific concentration limits	Classification
<b>glycerol</b>			
CAS N° 56-81-5	40.0% ≤ C ≤ 60.0%		
EC N° 200-289-5			
IDX N°			
<b>4-(1,1,3,3-tert-methylbutyl)phénol</b>			
CAS N° 9002-93-1	1.0% ≤ C ≤ 2.0%		H302 Harmful if swallowed H315 Causes skin irritation. H318 Causes serious eye damage H411 Toxic to aquatic life with long lasting effects.
EC N°			
IDX N°			

**3.3 Remark**

Text phrases and H- EUH-: see section 16.

**section 4 First aid measures****4.1 Description of first aid measures****General information:**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Do not leave affected person unattended.

Remove victim out of the danger area.

Keep affected person warm, still and covered.

**Following inhalation:**

Remove person to fresh air and keep comfortable for breathing.

**Following skin contact:**

Change contaminated, saturated clothing.

Take off contaminated clothing.

In case of skin irritation, consult a physician.

After contact with skin, wash immediately with plenty of water and soap.

**Following eye contact:**

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect unharmed eye.

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

**Following ingestion:**

Never give anything by mouth to an unconscious person or a person with cramps.

IF SWALLOWED: Rinse mouth.

Do NOT induce vomiting.

If swallowed: Call a POISON CENTER or physician if you feel unwell.

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

First aider: Pay attention to self-protection!

## 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

Use personal protection equipment.  
 Remove persons to safety.  
 Use appropriate respiratory protection.  
 Provide adequate ventilation.

### 6.2 Environmental precautions

Ensure that waste is collected and contained.  
 In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.  
 Avoid release to the environment.  
 Cover drains.  
 Ensure all waste water is collected and treated via a waste water treatment plant.  
 Do not allow to enter into soil/subsoil.  
 Do not allow to enter into surface water or drains.  
 Retain contaminated washing water and dispose it.  
 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.  
 Clean contaminated objects and areas thoroughly observing environmental regulations.  
 Collect spillage.  
 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:**

Avoid contact with skin, eyes and clothes.  
 Do not eat, drink or smoke when using this product.  
 Wear personal protective clothing (see section 8).  
 Sewers and ducts must be protected against the entry of the product.  
 Provide for retaining containers, eg. floor pan without outflow.  
 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.

Avoid breathing gas/fumes/vapour/spray.

**Advices on general occupational hygiene:**

- Wash hands before breaks and after work.
- Wash contaminated clothing before reuse.
- Remove contaminated, saturated clothing immediately.
- Work in well ventilated zones or use proper respiratory protection.

**In the immediate working surroundings there must be:**

Provide eye shower and label its location conspicuously.

## 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.

The Kit is stable for 18 months if stored in a dry environment at roomtemperature (15°C-25°C).The RNase solution must be stored at 2-8°C.After addition of the RNase solution, the SmartPure Resuspension buffer must be stored at 2-8°C.

**Requirements for storage rooms and vessels:**

Use isolated drainage to prevent discharge to soil.

Ensure adequate ventilation of the storage area.

The Kit is stable for 18 months if stored in a dry environment at roomtemperature (15°C-25°C).The RNase solution must be stored at 2-8°C.After addition of the RNase solution, the SmartPure Resuspension buffer must be stored at 2-8°C.

**Advice on joint storage:**

Keep away from food, drink and animal feedingstuffs.

## 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
glycerol CAS: 56-81-5 (GB)	10	mg/m <sup>3</sup>	Exposure limit (8 hours)

**Biological limit values:**

Not available

**Exposure limits at intended use:**

Not available

**Remark:**

Not available

## 8.2 Exposure controls

**Appropriate engineering controls:**

Technical measures and the application of suitable work processes have priority over personal protection equipment. 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:  
Wear eye protection equipment.

## Skin protection

### Recommended eye protection articles:

Eye glasses with side protection.

### : Hand protection:

#### Suitable gloves type:

Wear protective gloves.

#### Suitable material:

NBR (nitrile rubber).

Butyl caoutchouc (butyl rubber).

#### Additional hand protection measures:

Do not wear gloves near machines and rotating tools.

Use gloves only once.

#### Remark:

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Breakthrough times and swelling properties of the material must be taken into consideration.

#### Body protection:

#### Suitable protective clothing:

Lab coat.

## Respiratory protection

### : Respiratory protection necessary at:

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

#### Suitable respiratory protection apparatus:

Wear respiratory protection.

#### Remark:

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.

### Environmental exposure controls:

Not available

### Consumer exposure controls:

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>Dynamic viscosity</b>	: Not available
<b>Kinematic viscosity</b>	: Not available
<b>Oxidising properties</b>	: Not available
<b>Oxidising properties</b>	: Not available
<b>Solubility in other Solvents</b>	: Not available
<b>Log Kow</b>	: Not available
<b>Particle characteristics</b>	: 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 classified Acute Tox. 4\_ORAL according to the referenced regulation.

Harmful if swallowed.

ATE "SmartPure Plasmid Kit, DNA Purification Kit" = 25000.0 mg/kg.

**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 classified Eye Dam. 1 according to the referenced regulation.

Causes serious eye damage.

Causes serious eye irritation.

**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

### 11.14 Information on other hazards

Not available

## section 12 Ecological information

### 12.1 Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

**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

Not available

## 12.6 Endocrine disrupting properties

Not available

## 12.7 Other adverse effects

Not 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:**

Waste requiring special supervision.  
 Dispose of waste according to applicable legislation.  
 Delivery to an approved waste disposal company.

**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.  
 Handle contaminated packages in the same way as the substance itself.  
 Dispose of waste according to applicable legislation.

**Remark:**

For recycling, contact manufacturer.  
 Collect the waste separately.  
 Consult the appropriate authorities about waste disposal.  
 Do not mix with other wastes.  
 The waste is to be kept separate from other types of waste until its disposal.  
 Concerning the waste it has to be checked, whether a transport authorisation is required.

**13.2 Additional information**

Not available

**section 14 Transport information**
**14.1 UN number**

Not available

**14.2 UN proper shipping name**

Not available

**14.3 Transport hazard class(es)**

Not available

**14.4 Packing group**

Not available

**14.5 Environmental hazards**

Not available

**14.6 Special precautions for user**

Not available

**14.7 Bulk shipping according to IMO instruments**

Not available

**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.

### EU legislation:

#### REACH: Annex XIV (Authorisation list):

Substance	CAS	EC
4-(1,1,3,3-tert-methylbutyl)phénol	9002-93-1	

#### REACH: Candidate List of SVHC:

Substance	CAS	EC
4-(1,1,3,3-tert-methylbutyl)phénol	9002-93-1	

## 15.2 Chemical Safety Assessment

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

## 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)

H302	Acute Tox. 4 ORAL	Harmful if swallowed
H315	Skin Irrit. 2	Causes skin irritation.
H318	Eye Dam. 1	Causes serious eye damage
H319	Eye Irrit. 2	Causes serious eye irritation
H400	Aquatic Acute 1	Very toxic to aquatic life.
H410	Aquatic Chronic 1	Very toxic to aquatic life with long lasting effects.
H411	Aquatic Chronic 2	Toxic to aquatic life with long lasting effects.

## 16.6 Training advice

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

## 16.7 Additional information

Emergency phone number:

 <a href="#">Austria</a>	13 11 26	 <a href="#">Latvia</a>	+371 67042743
 <a href="#">Belgium</a>	+32 (0)70 245 245	 <a href="#">Liechtenstein</a>	112
 <a href="#">Bulgaria</a>	+359 2 9154 409	 <a href="#">Lithuania</a>	+370 8-5 236 20 52
 <a href="#">Croatia</a>	+385 1 2348 342	 <a href="#">Luxembourg</a>	8002-5500
 <a href="#">Cyprus</a>	112	 <a href="#">Malta</a>	112
 <a href="#">Czech Republic</a>	+420 224 919 293 +420 224 915 402	 <a href="#">Netherlands</a>	112 +32 (0)70 245 245
 <a href="#">Denmark</a>	82 12 12 12	 <a href="#">Norway</a>	22 59 13 00
 <a href="#">Estonia</a>	16 662 +372 7943 794	 <a href="#">Poland</a>	112
 <a href="#">Finland</a>	09 471 977	 <a href="#">Portugal</a>	808250143
 <a href="#">France</a>	+33 (0)1 45 42 59 59	 <a href="#">Romania</a>	112
 <a href="#">Germany</a>	112 +32 (0)70 245 245	 <a href="#">Slovakia</a>	+421 2 5477 4166
 <a href="#">Greece</a>	+30 210 77 93 777	 <a href="#">Slovenia</a>	112
 <a href="#">Hungary</a>	+36 80 201 199	 <a href="#">Spain</a>	+34 91 562 04 20
 <a href="#">Iceland</a>	112 +543 2222 +543 1000	 <a href="#">Switzerland</a>	145
 <a href="#">Ireland</a>	+353 (0)1 809 2166	 <a href="#">Sweden</a>	112 (begär Giftinformation)
 <a href="#">Italy</a>	+35 (0)2 6610 1029	 <a href="#">United Kingdom</a>	111

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The information given in this Safety Data Sheet is based on our present knowledge 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.