

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

Date of last issue: 21.05.2024  
Date of first issue: 04.05.2016

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

#### 1.1 Product identifier

Trade name : KAPA HiFi HotStart Uracil+ ReadyMix (2X)

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

Use of the Sub-  
stance/Mixture : Laboratory chemicals, Refer to product literature for further  
details.

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

Company : Roche Diagnostics Deutschland GmbH  
Sandhoferstrasse 116  
68305 Mannheim  
Deutschland

Telephone : +496217590  
Telefax : +496217592890  
Responsible Department : +49(0)621-759-4223  
E-mail address : info.dia-sds@roche.com

#### 1.4 Emergency telephone number

In case of emergencies: : Central Works Security +49(0)621-759-2203  
Roche Diagnostics GmbH

Centre for detoxification: : Mainz +49(0)6131-19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Specific target organ toxicity - single ex- H371: May cause damage to organs.  
posure, Category 2

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Warning

Hazard statements : H371 May cause damage to organs.

Precautionary statements : **Prevention:**  
P260 Do not breathe mist or vapours.  
P264 Wash skin thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.

# SAFETY DATA SHEET

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### Response:

P308 + P311 IF exposed or concerned: Call a POISON CENTER/ doctor.

### Storage:

P405 Store locked up.

### Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous components which must be listed on the label:

75-57-0 tetramethylammonium chloride

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

| Chemical name                | CAS-No.<br>EC-No.<br>Index-No.<br>Registration number | Classification  | Concentration<br>(% w/w) |
|------------------------------|---|---|--------------------------|
| tetramethylammonium chloride | 75-57-0<br>200-880-8<br>01-2119970924-26              | Acute Tox. 2; H300<br>Acute Tox. 3; H311<br>Skin Irrit. 2; H315<br>STOT SE 1; H370<br>(Central nervous system)<br>Aquatic Chronic 2;<br>H411<br>Acute toxicity estimate<br><br>Acute oral toxicity: 47 mg/kg<br>Acute dermal toxicity: 200,02 mg/kg | >= 1,0 - < 2,5           |

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|  |  |                |                     |
|--|--|----------------|---------------------|
| Nucleotidyltransferase, deoxyri-bonucleate   | 9012-90-2<br>232-741-2                   | Not classified | < 0,1               |
| Substances with a workplace exposure limit : |  |                |                     |
| glycerol                                     | 56-81-5<br>200-289-5<br>01-2119471987-18 | Not classified | >= 10,0 - <<br>20,0 |

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- General advice : Move out of dangerous area.  
Show this safety data sheet to the doctor in attendance.  
Do not leave the victim unattended.
- If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.
- In case of skin contact : If skin irritation persists, call a physician.  
If on skin, rinse well with water.  
If on clothes, remove clothes.
- In case of eye contact : Flush eyes with water as a precaution.  
Remove contact lenses.  
Protect unharmed eye.  
Keep eye wide open while rinsing.  
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.  
Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Take victim immediately to hospital.

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

- Risks : May cause damage to organs.

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

- Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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---

### SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

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

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire-fighting : No information available.

Hazardous combustion products : Carbon oxides  
Nitrogen oxides (NO<sub>x</sub>)  
Gaseous hydrogen chloride (HCl).

#### 5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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### SECTION 6: Accidental release measures

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

Personal precautions : Use personal protective equipment.  
Refer to protective measures listed in sections 7 and 8.

#### 6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.  
Prevent further leakage or spillage if safe to do so.  
Local authorities should be advised if significant spillages cannot be contained.

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

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### SECTION 7: Handling and storage

#### 7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Avoid exposure - obtain special instructions before use.  
Avoid contact with skin and eyes.  
For personal protection see section 8.  
Smoking, eating and drinking should be prohibited in the application area.  
Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

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

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines

Storage class (TRGS 510) : 12

Further information on storage stability : No decomposition if stored and applied as directed.

### 7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

| Components                                | CAS-No.  | Value type (Form of exposure) | Control parameters        | Basis                                     |
|---|--|-------------------------------|---------------------------|---|
| glycerol                                  | 56-81-5  | AGW (Inhalable fraction)      | 200 mg/m <sup>3</sup>     | DE TRGS 900                               |
|   | Peak-limit: excursion factor (category): 2;(l)   |                               |                           |   |
|   | Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child |                               |                           |   |
| Nucleotidyltransferase, deoxyribonucleate | 9012-90-2  | IOEL                          | 0,00006 mg/m <sup>3</sup> | Roche Industrial Hygiene Committee (RIHC) |

### 8.2 Exposure controls

#### Engineering measures

No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version  
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### Personal protective equipment

Eye/face protection : Eye wash bottle with pure water  
Tightly fitting safety goggles

Hand protection  
Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Impervious clothing  
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : In the case of vapour formation use a respirator with an approved filter.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid

Colour : colourless

Odour : odourless

Odour Threshold : No data available

Melting point/range : No data available

Boiling point/boiling range : No data available

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Flash point : does not flash

Auto-ignition temperature : No data available

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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1.9

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---

|  |   |                         |
|--|---|-------------------------|
| Decomposition temperature              | : | No data available       |
| pH                                     | : | 8,7                     |
| Viscosity                              |   |                         |
| Viscosity, dynamic                     | : | No data available       |
| Viscosity, kinematic                   | : | No data available       |
| Solubility(ies)                        |   |                         |
| Water solubility                       | : | completely miscible     |
| Solubility in other solvents           | : | No data available       |
| Partition coefficient: n-octanol/water | : | No data available       |
| Vapour pressure                        | : | No data available       |
| Relative density                       | : | No data available       |
| Density                                | : | 1,080 g/cm <sup>3</sup> |
| Relative vapour density                | : | No data available       |
| Particle characteristics               |   |                         |
| Particle Size Distribution             | : | Not applicable          |

### 9.2 Other information

|                        |   |   |
|------------------------|---|---|
| Oxidizing properties   | : | The substance or mixture is not classified as oxidizing.      |
| Flammability (liquids) | : | Does not sustain combustion.<br>The product is not flammable. |
| Self-ignition          | : | Not applicable  |
| Evaporation rate       | : | No data available   |

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.  
No decomposition if stored and applied as directed.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

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### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

Materials to avoid : Strong oxidizing agents

### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

## SECTION 11: Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute toxicity

Not classified due to lack of data.

#### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

#### Components:

##### **tetramethylammonium chloride:**

Acute oral toxicity : LD50 Oral (Rat): 47 mg/kg  
Method: OECD Test Guideline 401  
GLP: no

Acute dermal toxicity : LD50 Dermal (Rabbit): > 200 - < 500 mg/kg  
Method: OECD Test Guideline 402  
GLP: yes

##### **glycerol:**

Acute oral toxicity : LC50 (Mouse): 11.500 mg/kg

Acute inhalation toxicity : LC50 (Rat, male): 275000 mg/m<sup>3</sup>  
Exposure time: 7 h  
Test atmosphere: vapour  
GLP: no  
Assessment: The component/mixture is minimally toxic after short term inhalation.

Acute dermal toxicity : LD50 (Guinea pig, male and female): 56.750 mg/kg  
GLP: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

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### Skin corrosion/irritation

Not classified due to lack of data.

#### Product:

Remarks : May cause skin irritation and/or dermatitis.

#### Components:

##### **tetramethylammonium chloride:**

Result : Irritating to skin.

##### **glycerol:**

Species : Rabbit  
Exposure time : 24 h  
Result : No skin irritation  
GLP : no

### Serious eye damage/eye irritation

Not classified due to lack of data.

#### Product:

Remarks : Vapours may cause irritation to the eyes, respiratory system and the skin.

#### Components:

##### **tetramethylammonium chloride:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : No eye irritation

##### **glycerol:**

Species : Rabbit  
Exposure time : 7 d  
Result : No eye irritation  
GLP : no

### Respiratory or skin sensitisation

#### **Skin sensitisation**

Not classified due to lack of data.

#### **Respiratory sensitisation**

Not classified due to lack of data.

#### Components:

##### **tetramethylammonium chloride:**

Test Type : Local lymph node assay (LLNA)  
Species : Mouse  
Assessment : Does not cause skin sensitisation.  
Method : OECD Test Guideline 429

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Version  
1.9

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### glycerol:

Assessment : Mild eye irritant  
Mild respiratory irritant  
No skin irritation

### Germ cell mutagenicity

Not classified due to lack of data.

### Components:

#### tetramethylammonium chloride:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Result: negative

Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Escherichia coli  
Result: negative

### glycerol:

Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Test system: Salmonella typhimurium  
Metabolic activation: with and without metabolic activation  
Result: negative  
GLP: No information available.

Test Type: In vitro mammalian cell gene mutation test  
Test system: Chinese hamster ovary cells  
Metabolic activation: with and without metabolic activation  
Method: OECD Test Guideline 476  
Result: negative  
GLP: No information available.

### Carcinogenicity

Not classified due to lack of data.

### Components:

#### glycerol:

Species : Rat, male and female  
Application Route : Oral  
Exposure time : 2 Years  
GLP : No information available.  
Remarks : No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

### Reproductive toxicity

Not classified due to lack of data.

### Components:

#### glycerol:

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

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---

Effects on fertility : Test Type: Two-generation study  
Species: Rat, male and female  
Application Route: Oral  
Dose: 2000 mg/kg bw/day  
Fertility: NOAEL: 2.000 mg/kg body weight  
GLP: no

Effects on foetal development : Species: Rabbit, female  
Application Route: Oral  
Dose: 11.8, 54.8, 254.5, 1180 mg/kg bw/day  
Duration of Single Treatment: 29 d  
Developmental Toxicity: NOAEL: 1.180 mg/kg bw/day  
GLP: no

### STOT - single exposure

May cause damage to organs.

#### Components:

##### **tetramethylammonium chloride:**

Exposure routes : Ingestion  
Target Organs : Central nervous system  
Assessment : Causes damage to organs.

##### **Nucleotidyltransferase, deoxyribonucleate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, single exposure.

### STOT - repeated exposure

Not classified due to lack of data.

#### Components:

##### **Nucleotidyltransferase, deoxyribonucleate:**

Assessment : The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### Repeated dose toxicity

#### Components:

##### **tetramethylammonium chloride:**

Species : Rat  
NOAEL : 5 mg/kg  
Application Route : Oral  
Method : OECD Test Guideline 421  
GLP : yes

##### **glycerol:**

Species : Rat, male and female  
NOAEL : 4580 mg/kg  
NOAEL : 4.580 mg/kg  
Application Route : Oral

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

Date of last issue: 21.05.2024  
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---

|                     |   |                                   |
|---------------------|---|-----------------------------------|
| Exposure time       | : | 90 d                              |
| Number of exposures | : | daily                             |
| Dose                | : | 4580 - 25,800 mg/kg/day           |
| GLP                 | : | no                                |
| Species             | : | Rat, male and female              |
| Application Route   | : | Inhalation                        |
| Test atmosphere     | : | dust/mist                         |
| Exposure time       | : | 13 Weeks                          |
| Number of exposures | : | 6 hours/day, 5 days/week          |
| Dose                | : | 33, 165 and 660 mg/m <sup>3</sup> |
| GLP                 | : | No information available.         |
| Species             | : | Rat                               |
| NOAEL               | : | 5040 mg/kg                        |
| NOAEL               | : | 5.040 mg/kg                       |
| Application Route   | : | Dermal                            |
| Exposure time       | : | 45 Weeks                          |
| Number of exposures | : | 8 hours/day, 5 days/week          |
| Dose                | : | 0.5-4.0 ml/kg                     |
| GLP                 | : | no                                |

### Aspiration toxicity

Not classified due to lack of data.

## 11.2 Information on other hazards

### Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### Further information

#### Components:

#### **tetramethylammonium chloride:**

Remarks : Other dangerous properties can not be excluded.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

#### **tetramethylammonium chloride:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 462 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

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Date of last issue: 21.05.2024  
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- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,16 mg/l  
Exposure time: 11 d  
GLP: yes
- NOEC (Daphnia magna (Water flea)): 0,03 mg/l  
Exposure time: 11 d  
GLP: yes
- LC50 (Daphnia magna (Water flea)): 1,86 mg/l  
Exposure time: 48 h  
GLP: yes
- Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 115 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
GLP: yes

### Ecotoxicology Assessment

- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.
- Toxicity Data on Soil : Not expected to adsorb on soil.
- Other organisms relevant to the environment : No data available

### Nucleotidyltransferase, deoxyribonucleate:

#### Ecotoxicology Assessment

- Toxicity Data on Soil : Not expected to adsorb on soil.
- Other organisms relevant to the environment : No data available

### glycerol:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 54.000 mg/l  
End point: mortality  
Exposure time: 96 h  
Test Type: static test  
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 1.955 mg/l  
End point: mortality  
Exposure time: 48 h  
Test Type: static test  
Analytical monitoring: no  
GLP: no
- Toxicity to algae/aquatic plants : (Scenedesmus quadricauda (Green algae)): > 10.000 mg/l  
End point: Growth rate  
Exposure time: 8 d  
Test Type: static test

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

Date of last issue: 21.05.2024  
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GLP: no

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 10.000 mg/l  
End point: Growth rate  
Exposure time: 16 h  
Test Type: static test  
GLP: No information available.

### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

Toxicity Data on Soil : Not expected to adsorb on soil.

Other organisms relevant to the environment : No data available

## 12.2 Persistence and degradability

### Components:

#### **tetramethylammonium chloride:**

Biodegradability : Remarks: Expected to be biodegradable

#### **glycerol:**

Biodegradability : Test Type: aerobic  
Inoculum: activated sludge  
Concentration: 226 mg/l  
Result: Readily biodegradable.  
Biodegradation: 94 %  
Exposure time: 24 h  
GLP: no

## 12.3 Bioaccumulative potential

### Components:

#### **tetramethylammonium chloride:**

Partition coefficient: n-octanol/water : Remarks: No data available

#### **Nucleotidyltransferase, deoxyribonucleate:**

Partition coefficient: n-octanol/water : Remarks: No data available

#### **glycerol:**

Partition coefficient: n-octanol/water : log Pow: -1,75 (25 °C)  
pH: 7,4  
Method: OECD Test Guideline 107  
GLP: no

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

Date of last issue: 21.05.2024  
Date of first issue: 04.05.2016

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

**Product:**

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

**Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.  
Send to a licensed waste management company.  
Can be disposed as waste water, when in compliance with local regulations.

Contaminated packaging : Empty remaining contents.  
Dispose of as unused product.  
Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers.

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## SECTION 14: Transport information

### 14.1 UN number or ID number

ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

### 14.2 UN proper shipping name

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

Date of last issue: 21.05.2024  
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**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.3 Transport hazard class(es)

**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA** : Not regulated as a dangerous good

### 14.4 Packing group

**ADR** : Not regulated as a dangerous good  
**RID** : Not regulated as a dangerous good  
**IMDG** : Not regulated as a dangerous good  
**IATA (Cargo)** : Not regulated as a dangerous good  
**IATA (Passenger)** : Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Remarks : Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

### 14.7 Maritime transport in bulk according to IMO instruments

Remarks : Not applicable

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

Regulation (EC) No 649/2012 of the European Parlia- : Not applicable

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## KAPA HiFi HotStart Uracil+ ReadyMix Kit

Version  
1.9

Revision Date:  
21.05.2024

Date of last issue: 21.05.2024  
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ment and the Council concerning the export and import  
of dangerous chemicals

REACH - List of substances subject to authorisation : Not applicable  
(Annex XIV)

Seveso III: Directive : Not applicable  
2012/18/EU of the European  
Parliament and of the Council  
on the control of major-  
accident hazards involving  
dangerous substances.

Water hazard class (Germa- : WGK 1 slightly hazardous to water  
ny) Classification according to AwSV, Annex 1 (5.2)

TA Luft List (Germany) : 5.2.1: Total dust:  
others: < 0,01 % edetic acid  
5.2.2: Inorganic substances in powdered form:  
Not applicable  
5.2.4: Inorganic substances in gaseous form:  
Not applicable  
5.2.5: Organic Substances:  
Not applicable  
5.2.7.1.1: Carcinogenic substance:  
Not applicable  
5.2.7.1.1: Quartz fine dust PM4:  
Not applicable  
5.2.7.1.1: Formaldehyde:  
Not applicable  
5.2.7.1.1: fibres:  
Not applicable  
5.2.7.1.2: Germ cell mutagens:  
Not applicable  
5.2.7.1.3: Substances toxic to reproduction:  
Not applicable  
5.2.7.2: Poorly degradable, easily enrichable and highly toxic  
organic substances:  
Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial  
emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: < 0,01 %

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity  
Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national  
regulations, where applicable.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



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Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

### The components of this product are reported in the following inventories:

|       |  |
|-------|--|
| AIIC  | : Not in compliance with the inventory   |
| DSL   | : This product contains the following components that are not on the Canadian DSL nor NDSL.<br><br>thymidine 5'-(tetrahydrogen triphosphate)<br>2'-deoxyguanosine 5'-(tetrahydrogen triphosphate)<br>2'-deoxyadenosine 5'-(tetrahydrogen triphosphate)<br>Cytidine 5'-(tetrahydrogen triphosphate), 2'-deoxy-<br>Antibodies<br>Nucleotidyltransferase, deoxyribonucleate |
| NZIoC | : On the inventory, or in compliance with the inventory  |
| ENCS  | : Not in compliance with the inventory   |
| ISHL  | : Not in compliance with the inventory   |
| KECI  | : Not in compliance with the inventory   |
| PICCS | : Not in compliance with the inventory   |
| IECSC | : Not in compliance with the inventory   |
| TCSI  | : Not in compliance with the inventory   |
| TSCA  | : Product contains substance(s) not listed on TSCA inventory.  |
| TECI  | : Not in compliance with the inventory   |

### 15.2 Chemical safety assessment

Chemical Safety Assessments for all substances in this product are either Complete or Not applicable.

## SECTION 16: Other information

### Full text of H-Statements

|      |  |
|------|--|
| H300 | : Fatal if swallowed.                              |
| H311 | : Toxic in contact with skin.                      |
| H315 | : Causes skin irritation.                          |
| H370 | : Causes damage to organs if swallowed.            |
| H411 | : Toxic to aquatic life with long lasting effects. |

### Full text of other abbreviations

|                 |                                      |
|-----------------|--------------------------------------|
| Acute Tox.      | : Acute toxicity                     |
| Aquatic Chronic | : Long-term (chronic) aquatic hazard |

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Skin Irrit. : Skin irritation  
STOT SE : Specific target organ toxicity - single exposure  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
DE TRGS 900 / AGW : Time Weighted Average

### Classification of the mixture:

STOT SE 2 H371

### Classification procedure:

Calculation method

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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