

**IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

**Product details:** Kits containing individual dNTPs  
**Trade name:** KAPA dNTP Kit  
**Catalog number:** KK1017, KK1038  
**Application of the substance/preparation:**  
 Laboratory chemicals

**Manufacturer/Supplier:**  
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 in your country

**COMPOSITION/INFORMATION ON INGREDIENTS**
**Chemical characterization**

- **Description:** Solutions, consisting of the following components:

CAS number: 1928-31-7	2'-deoxyadenosine 5'- triphosphate, sodium salt solution	2.5 – 10 %
CAS number: 102783-51-7	2'-deoxycytidine 5'- triphosphate, sodium salt solution	2.5 – 10 %
CAS number: 93919-41-6	2'-deoxyguanosine 5'- triphosphate, sodium salt solution	2.5 – 10 %
CAS number: 18423-43-3	2'-deoxythymidine 5'- triphosphate, sodium salt solution	2.5 – 10 %

**Other components:**

- Components not listed here are not dangerous or their concentrations do not exceed the limits specified in the EU directive 1999/45/EC.

**Additional information:**

- For the wording of the listed risk phrases refer to section "OTHER INFORMATION".

**HAZARDS IDENTIFICATION**
**Hazard description:**

- Not applicable.

**Information concerning particular hazards for humans and environment:**

- The product does not have to be labeled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

**Classification system:**

- The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

## FIRST AID MEASURES

### General information:

- No special measures required.

### After inhalation:

- Supply fresh air; consult doctor in case of complaints.

### After skin contact:

- Generally the product does not irritate the skin.

### After eye contact:

- Rinse opened eye for several minutes under running water.

### After ingestion:

- If symptoms persist consult doctor.

## FIRE-FIGHTING MEASURES

### Suitable extinguishing agents:

- CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or appropriate foam.

### Special risks:

- None.

### Protective equipment for fire-fighters:

- No special measures required.

## ACCIDENTAL RELEASE MEASURES

### Person-related safety precautions:

- None required.

### Measures for environmental protection:

- Dilute with plenty of water. Do not allow undiluted or large quantities of product to enter sewers/surface or ground water.

### Measures for cleaning/collecting:

- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

### Additional information:

- No dangerous substances are released.

## HANDLING AND STORAGE

### Information for safe handling:

- Wear gloves. No special measures required.

### Information for safe storage:

- No special requirements to be met by storerooms and receptacles.
- No special requirements to be met for storage in one common storage facility.
- No further information about storage conditions provided.

## EXPOSURE CONTROLS/PERSONAL PROTECTION

### Additional information:

- The lists valid during the making of this MSDS were used as basis.

### Ingredients with limit values that require monitoring at the workplace:

- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

### General protective and hygienic measures:

- The usual precautionary measures are to be adhered to when handling chemicals.

### Respiratory protection:

- None required.

### Protection of hands:

- The glove material has to be impermeable and resistant to the product/the substance/the preparation. Due to missing tests no recommendation for the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and physical degradation should be made.

### Material of gloves:

- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

### Penetration time of glove material:

- The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

### Eye protection:

- Chemical safety goggles recommended.

## PHYSICAL AND CHEMICAL PROPERTIES

### General information:

<b>Form:</b> Solution	<b>Boiling point/Boiling range:</b> Undetermined
<b>Colour:</b> Colourless	<b>Flash point:</b> Not applicable
<b>Odour:</b> Odourless	<b>Self-igniting:</b> Product is not self igniting
<b>Melting point/Melting range:</b> Undetermined	<b>Danger of explosion:</b> Product does not present an explosion hazard
<b>Density:</b> Undetermined	<b>pH-value at 20°C:</b> 7.4-8.6
<b>Solubility in / Miscibility with water:</b> Fully miscible	

## STABILITY AND REACTIVITY

### Thermal decomposition / conditions to be avoided:

- No decomposition if used according to specifications. Avoid strong heating.

### Dangerous reactions:

- No dangerous reactions known.

### Dangerous decomposition products:

- No dangerous decomposition products known.

## TOXICOLOGICAL INFORMATION

### Acute toxicity:

- None.

### Primary irritant effect:

- **on the skin:** No irritant effect.
- **on the eyes:** No irritant effect.

### Sensitization:

- No sensitizing effects known.

### Additional toxicological information:

- The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version. When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

## ECOLOGICAL INFORMATION

### General notes:

- Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## DISPOSAL CONSIDERATIONS

### Product:

- **Recommendation:** Smaller quantities can be disposed of with household waste.

### Uncleaned packaging:

- **Recommendation:** Disposal must be made according to official regulations.

### Recommended cleansing agents:

- Water, if necessary together with cleansing agents.

## TRANSPORT INFORMATION

### Land transport ADR/RID (cross-border):

- **ADR/RID class:** None

### Maritime transport IMDG:

- **IMDG Class:** None

### Marine pollutant:

- No

### Air transport ICAO-TI and IATA-DGR:

- **ICAO/IATA Class:** None

## REGULATORY INFORMATION

### Labeling according to EU guidelines:

- Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations under EU Directives and the *Ordinance on Hazardous Materials* (German GefStoffV).

### Special labeling of certain preparations:

- Safety data sheet available for professional user on request.

## OTHER INFORMATION

This information is based on our present knowledge and shall be used only as a guide. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Kapa Biosystems is not held liable for any damage resulting from handling or from contact with the above mentioned products. MSDS has been prepared in accordance with EU directives 67/548/EEC, 91/155/EEC and other EU Community legislation in force.