

| Version | Revision Date: | Date of last issue: 10-11-2021 |
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| 2.0 | 03-25-2022 | Date of first issue: 05-24-2016 |

SECTION 1. IDENTIFICATION

| Product name Product code | : | KAPA Human Genomic DNA Quantification and QC Kit (LightCycler 480) 07960620001 | |
|--|-----|--|---|
| Manufacturer or supplier's of Company name of supplier | | | |
| Company name of supplier | • | - | |
| Address | : | 9115 Hague Road Indianapolis, IN 46250 USA | |
| Telephone Emergency telephone | : | 1-800-428-5074 | |
| In case of emergencies: | : | CHEMTREC | 1-800-424-9300 (U.S. or Ca- nada) 1-703-527-3887 (Internatio- |
| Pacammandad usa of the a | hon | nical and restrictions on use | nal) |
| | | | |
| Restrictions on use | : | For professional users only. | |

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section GHS Label elements contains the resulting labelling for the kit

GHS label elements

| Hazard pictograms | : | |
|--------------------------|---|--|
| Signal Word | : | Danger |
| Hazard Statements | : | H370 Causes damage to organs. |
| Precautionary Statements | : | Prevention: P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. |
| | | Response: P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician. |
| | | 1/33 |



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Storage:

P405 Store locked up.

Disposal:

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

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

2x SYBR Fast Universal MM

GHS Classification

Specific target organ toxicity : Category 1 - single exposure

Components

| Chemical name | CAS-No. | Concentration (% w/w) |
|---|---------|-----------------------|
| glycerol | 56-81-5 | >= 10 - < 20 |
| Methane, 1,1'-sulfinylbis- | 67-68-5 | >= 5 - < 10 |
| Methanaminium, N,N,N-trimethyl-, chloride (1:1) | 75-57-0 | >= 1 - < 5 |
| 1,3-Propanediol, 2-amino-2- (hydroxymethyl)- | 77-86-1 | >= 1 - < 5 |

Actual concentration is withheld as a trade secret

KAPA hgDNA Quantification Primer Premixes (10X)

GHS Classification

Not a hazardous substance or mixture.

Components

No hazardous ingredients

KAPA hgDNA Quantification Standards

GHS Classification

Not a hazardous substance or mixture.

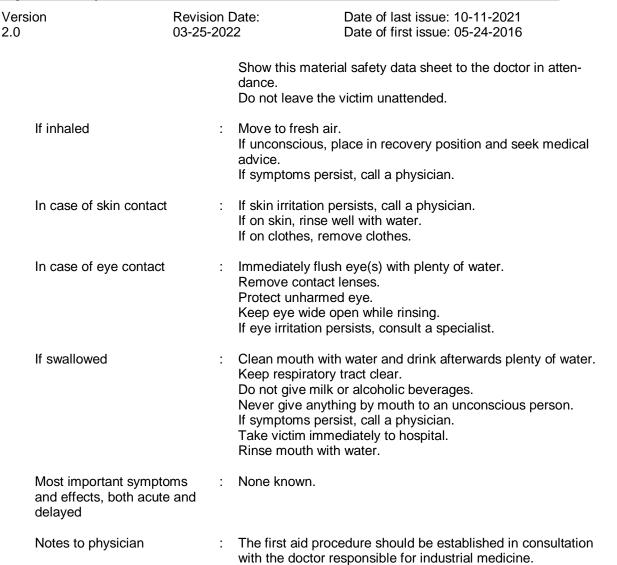
Components

No hazardous ingredients

SECTION 4. FIRST AID MEASURES

General advice

: Move out of dangerous area.



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SECTION 5. FIRE-FIGHTING MEASURES

| Suitable extinguishing media | : | Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. |
|--|---|--|
| Unsuitable extinguishing media | : | High volume water jet |
| Specific hazards during fire fighting | : | No information available. |
| Further information | : | Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local cir- cumstances and the surrounding environment. |
| Special protective equipment for fire-fighters | : | Wear self-contained breathing apparatus for firefighting if necessary. |

SECTION 6. ACCIDENTAL RELEASE MEASURES



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|--------------|--|-------------------------|--------------------|--|
| | Personal precautions, p tive equipment and em gency procedures | | | tective equipment. e measures listed in sections 7 and 8. |
| | Environmental precauti | ions : | Prevent further le | rom entering drains. eakage or spillage if safe to do so. should be advised if significant spillages ned. |
| | Methods and materials containment and clean | | acid binder, unive | rt absorbent material (e.g. sand, silica gel, ersal binder, sawdust). closed containers for disposal. |

SECTION 7. HANDLING AND STORAGE

| Advice on protection against fire and explosion | : | Normal measures for preventive fire protection. |
|---|---|---|
| Advice on safe handling | : | Do not breathe vapors/dust. 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 ap- plication area. Dispose of rinse water in accordance with local and national regulations. |
| Conditions for safe storage | : | Keep container tightly closed in a dry and well-ventilated pla- ce. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards. |
| Further information on stor- age conditions | : | See label, package insert or internal guidelines |
| Further information on stor- age stability | : | No decomposition if stored and applied as directed. |

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

2x SYBR Fast Universal MM

Ingredients with workplace control parameters

| Components | CAS-No. | Value type (Form of exposure) | Control parame- ters / Permissible concentration | Basis |
|------------|---------|---------------------------------------|--|----------|
| glycerol | 56-81-5 | TWA (mist, respirable fraction) | 5 mg/m3 | OSHA Z-1 |
| | | TWA (mist, total dust) | 15 mg/m3 | OSHA Z-1 |



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| | | TWA (Mist - total dust) | 10 mg/m3 | OSHA P0 |
|----------------------------|---------|--|----------|---------|
| | | TWA (Mist - respirable fraction) | 5 mg/m3 | OSHA P0 |
| Methane, 1,1'-sulfinylbis- | 67-68-5 | TWA | 250 ppm | US WEEL |

KAPA hgDNA Quantification Primer Premixes (10X)

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

KAPA hgDNA Quantification Standards

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

| Engineering measures | No data available | | | |
|---|--|--|--|--|
| Personal protective equipme | t | | | |
| • • • • | In the case of vapor formation use a respirator with an approved filter. | | | |
| Hand protection | | | | |
| Material Break through time Glove thickness | In case of contact through splashing: Nitrile rubber > 30 min > 0.11 mm | | | |
| Material Break through time Glove thickness | In case of full contact: butyl-rubber > 480 min > 0.4 mm | | | |
| Remarks | Wear appropriate protective gloves to prevent skin contact. Replace torn or punctured gloves promptly. | | | |
| Eye protection | Eye wash bottle with pure water Tightly fitting safety goggles | | | |
| Skin and body protection | Impervious clothing Choose body protection according to the amount and con- centration of the dangerous substance at the work place. | | | |
| Hygiene measures | When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday. | | | |

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

2x SYBR Fast Universal MM

Appearance

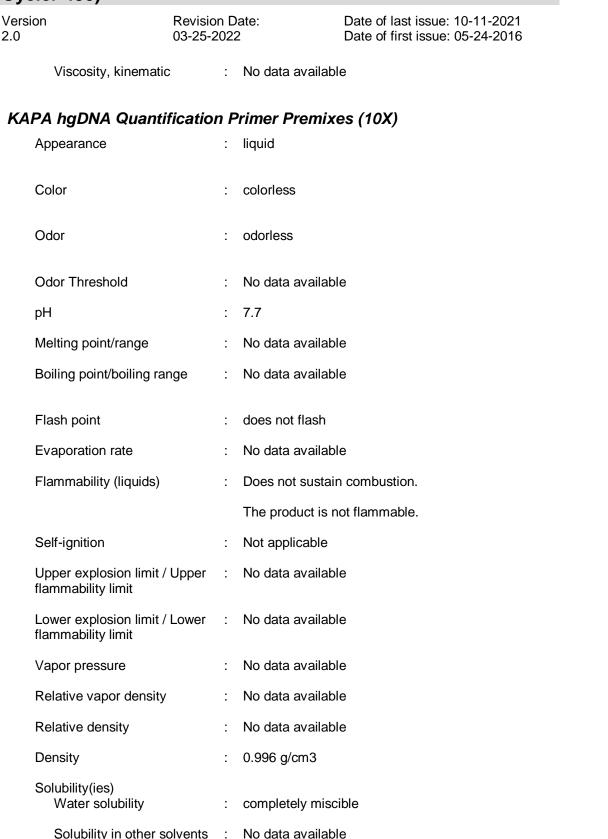
: liquid



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|---|-------------------------|-----|---|
| Color | : | No | data available |
| Odor | : | No | data available |
| Odor Threshold | : | No | data available |
| рН | : | 9.0 | |
| Melting point/range | : | No | data available |
| Boiling point/boiling ra | inge : | No | data available |
| Flash point | : | doe | es not flash |
| Evaporation rate | : | No | data available |
| Flammability (solid, ga | as) : | Doe | es not sustain combustion. |
| Flammability (liquids) | : | Doe | es not sustain combustion. |
| Self-ignition | : | Not | applicable |
| Upper explosion limit / flammability limit | Upper : | No | data available |
| Lower explosion limit / flammability limit | Lower : | No | data available |
| Vapor pressure | : | No | data available |
| Relative vapor density | <i>י</i> : | No | data available |
| Relative density | : | No | data available |
| Density | : | 1.0 | 44 g/cm3 |
| Solubility(ies) Water solubility | : | con | npletely miscible |
| Solubility in other s | olvents : | No | data available |
| Partition coefficient: n- octanol/water | · : | No | data available |
| Autoignition temperatu | ure : | No | data available |
| Decomposition tempe | rature : | No | data available |
| Viscosity Viscosity, dynamic | : | No | data available |

Partition coefficient: n-

octanol/water



KAPA Human Genomic DNA Quantification and QC Kit (Light-Cycler 480)

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No data available

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|-------------|---------------------------------|------------------------------|-----------------|---|
| | Autoignition temperate | ure : | No data availab | le |
| | Decomposition tempe | rature : | No data availab | le |
| | Viscosity Viscosity, dynamic | : | No data availab | le |
| | Viscosity, kinemati | c : | No data availab | le |
| | Explosive properties | : | Not explosive | |
| | Oxidizing properties | : | The substance | or mixture is not classified as oxidizing. |

KAPA hgDNA Quantification Standards

| Appearance | : | liquid |
|--|---|-------------------------------|
| Color | : | colorless |
| Odor | : | odorless |
| Odor Threshold | : | No data available |
| рН | : | 7.7 |
| Melting point/range | : | No data available |
| Boiling point/boiling range | : | No data available |
| Flash point | : | does not flash |
| Evaporation rate | : | No data available |
| Flammability (liquids) | : | Does not sustain combustion. |
| | | The product is not flammable. |
| Self-ignition | : | Not applicable |
| Upper explosion limit / Upper flammability limit | : | No data available |
| Lower explosion limit / Lower flammability limit | : | No data available |
| Vapor pressure | : | No data available |
| Relative vapor density | : | No data available |
| | | |



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|-------------|--|----------------------|-----|------------------|---|
| | Relative density | | : | No data availab | le |
| | Density | | : | 0.996 g/cm3 | |
| | Solubility(ies) Water solubility | | : | completely misc | ible |
| | Solubility in other s | olvents | : | No data availab | le |
| | Partition coefficient: n- octanol/water | - | : | No data availab | le |
| | Autoignition temperatu | ure | : | No data availab | le |
| | Decomposition tempe | rature | : | No data availab | le |
| | Viscosity Viscosity, dynamic | | : | No data availab | le |
| | Viscosity, kinemati | с | : | No data availab | le |
| | Explosive properties | | : | Not explosive | |
| | Oxidizing properties | | : | The substance of | or mixture is not classified as oxidizing. |

SECTION 10. STABILITY AND REACTIVITY

| Reactivity | : | No dangerous reaction known under conditions of normal use. |
|---|---|--|
| Chemical stability | : | Stable under normal conditions. |
| Possibility of hazardous reac- tions | : | No dangerous reaction known under conditions of normal use. No decomposition if stored and applied as directed. |
| Conditions to avoid | : | Exposure to light. |
| Incompatible materials | : | Strong oxidizing agents |
| Hazardous decomposition products | : | No decomposition if stored and applied as directed. |

SECTION 11. TOXICOLOGICAL INFORMATION

2x SYBR Fast Universal MM

Acute toxicity

Not classified based on available information.

Components:

glycerol:

Acute oral toxicity



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| Acute inhalation toxicit | Expo Test GLP Asse | 0 (Rat, male): 275000 mg/m3 osure time: 7 h atmosphere: vapor : no essment: The component/mixture is minimally toxic afte t term inhalation. |
| Acute dermal toxicity | : LD5 GLP | 0 (Guinea pig, male and female): 56,750 mg/kg : no |
| Mothana 11-sulfiny | lhic_1 | |
| Methane, 1,1'-sulfiny Acute oral toxicity | : LD5 | 0 (Rat, male and female): 28,300 mg/kg nod: OECD Test Guideline 401 : no |
| Acute inhalation toxicit | Expo Test Meth | (Rat, male and female): > 5.33 mg/l osure time: 4 h atmosphere: vapor nod: OECD Test Guideline 403 : yes |
| Acute dermal toxicity | : LD5 GLP | 0 Dermal (Rat, male and female): 40,000 mg/kg : no |
| Methanaminium, N,N | N-trimethyl- cł | aloride (1:1) |
| Acute oral toxicity | : LD5 | 0 Oral (Rat): 47 mg/kg nod: OECD Test Guideline 401 |
| Acute dermal toxicity | Meth | 0 Dermal (Rabbit): > 200 - < 500 mg/kg nod: OECD Test Guideline 402 : yes |
| 1,3-Propanediol, 2-ar | nino-2-(hvdroxy | vmethvl)-: |
| Acute oral toxicity | : LD5 Meth | 0 (Rat, female): > 5,000 mg/kg nod: OECD Test Guideline 425 : yes |
| Acute dermal toxicity | Meth | 0 (Rat, male and female): > 5,000 mg/kg nod: OECD Test Guideline 402 : yes |
| Skin corrosion/irritat | - | |
| Not classified based o | h available inform | nation. |
| <u>Components:</u> | | |
| glycerol: Species Exposure time Result | : Rab : 24 h : No s | |



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GLP

: no

Methane, 1,1'-sulfinylbis-:

| Species | : Rabbit |
|---------------|---------------------------|
| Exposure time | : 4 h |
| Method | : OECD Test Guideline 404 |
| GLP | : yes |
| Remarks | : Mild skin irritation |
| | |

Revision Date:

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

| Result | : | Irritating to skin. |
|--------|---|---------------------|
|--------|---|---------------------|

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

| Species | : | Rabbit |
|---------------|---|-------------------------|
| Exposure time | : | 4 h |
| Method | : | OECD Test Guideline 404 |
| Result | : | No skin irritation |
| GLP | : | yes |
| | | |

Serious eye damage/eye irritation

Not classified based on available information.

Components:

glycerol:

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

Methane, 1,1'-sulfinylbis-:

| Species | : | Rabbit |
|---------------|---|---------------------------|
| Exposure time | : | 24 h |
| Method | : | OECD Test Guideline 405 |
| GLP | : | No information available. |
| Remarks | : | Mild eye irritation |
| | | |

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

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

1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

| Species | : | Rabbit |
|---------------|---|-------------------------|
| Result | : | No eye irritation |
| Exposure time | : | 72 h |
| Method | : | OECD Test Guideline 405 |
| GLP | : | yes |

SAFETY DATA SHEET



KAPA Human Genomic DNA Quantification and QC Kit (Light-Cycler 480)

| Skin sensitiza Not classified k Respiratory se Not classified k Components: glycerol: Assessment Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminik Test Type Species Assessment Methanaminik | based on available ensitization based on available : | information. information. Mild eye irritan Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | |
|--|--|--|---|
| Not classified & Respiratory se Not classified & Components: glycerol: Assessment Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | based on available ensitization based on available : sulfinylbis-: : : : : : : : : : : : : : : : : : : | information. Mild eye irritan Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | ode assay (LLNA) e skin sensitization. uideline 429 available. |
| Respiratory se Not classified to Components: glycerol: Assessment Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | ensitization based on available sulfinylbis-: | information. Mild eye irritan Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | ode assay (LLNA) e skin sensitization. uideline 429 available. |
| Not classified to <u>Components:</u> glycerol: Assessment Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | based on available sulfinylbis-: : : : : : : : : | Mild eye irritan Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | ode assay (LLNA) e skin sensitization. uideline 429 available. |
| Components: glycerol: Assessment Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | : sulfinylbis-: : : : : : : : | Mild eye irritan Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | ode assay (LLNA) e skin sensitization. uideline 429 available. |
| glycerol: Assessment Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | | Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | ode assay (LLNA) e skin sensitization. uideline 429 available. |
| Assessment Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | | Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | ode assay (LLNA) e skin sensitization. uideline 429 available. |
| Methane, 1,1'- Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | | Local lymph no Mouse Does not cause OECD Test Gu No information Mild eye irritati | ode assay (LLNA) e skin sensitization. uideline 429 available. |
| Test Type Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | | Mouse Does not cause OECD Test Gu No information Mild eye irritati | e skin sensitization. uideline 429 available. |
| Species Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | Im, N,N,N-trimeth | Mouse Does not cause OECD Test Gu No information Mild eye irritati | e skin sensitization. uideline 429 available. |
| Assessment Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | Im, N,N,N-trimeth | Does not cause OECD Test Gu No information Mild eye irritati | uideline 429 available. |
| Method GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | Im, N,N,N-trimeth | OECD Test Gu No information Mild eye irritati | uideline 429 available. |
| GLP Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | : : im, N,N,N-trimeth | No information Mild eye irritati | available. |
| Assessment Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | : : ım, N,N,N-trimeth | Mild eye irritati | |
| Methanaminiu Test Type Species Assessment Method 1,3-Propanedi Test Type | : ım, N,N,N-trimeth | - | on, Mild skin irritation |
| Test Type Species Assessment Method 1,3-Propanedi Test Type | ım, N,N,N-trimeth | vi oblanista (4- | |
| Test Type Species Assessment Method 1,3-Propanedi Test Type | iiii, iv,iv,iv-u iiiieui | | 1). |
| Species Assessment Method 1,3-Propanedi Test Type | | | |
| Assessment Method 1,3-Propanedi Test Type | | Mouse | ode assay (LLNA) |
| Method 1,3-Propanedi Test Type | • | | e skin sensitization. |
| Test Type | : | OECD Test Gu | |
| Test Type | ol, 2-amino-2-(hy | droxymethyl)-: | |
| •• | | •••• | Reactivity Assay (DPRA) |
| | | | e skin sensitization. |
| GLP | : | yes | |
| Remarks | : | Based on data | from similar materials |
| | | Expert judgme | nt |
| Test Type | : | Buehler Test | |
| Species | : | Guinea pig | |
| Method | : | OECD Test Gu | uideline 406 |
| GLP | : | no | |
| Remarks | : | Based on data | from similar materials |
| Test Type | : | Intracutaneous | stest |
| Species | : | Guinea pig | |
| GLP | : | no | |
| Remarks | : | Based on data | from similar materials |

Components:

glycerol:



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| | 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 activa Method: OECD Test Guideline 476 Result: negative GLP: No information available. | | | | |
| | Methane, 1,1'-sulfiny | lbis-: | | | | | |
| | Genotoxicity in vitro | : | Test system: Salı Metabolic activati | bial mutagenesis assay (Ames test) nonella typhimurium on: with and without metabolic activation est Guideline 471 tion available. | | | |
| | | | Test system: Chi Metabolic activati | nosome aberration test in vitro nese hamster ovary cells on: with and without metabolic activation est Guideline 473 tion available. | | | |
| | | | Test system: Chi Metabolic activati | chromatid exchange assay nese hamster ovary cells on: with and without metabolic activation est Guideline 479 ion available. | | | |
| | Genotoxicity in vivo | : | Species: Rat (ma Cell type: Bone m Application Route Dose: 200, 1000, | narrow e: Intraperitoneal injection | | | |
| Methanaminium, N,N,N-trimeth | | hvl chloride (1:1): | | | | | |
| | Genotoxicity in vitro | : | Test Type: Microl | bial mutagenesis assay (Ames test) nonella typhimurium | | | |
| | | | Test Type: Microl Test system: Esc Result: negative | pial mutagenesis assay (Ames test) herichia coli | | | |



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1,3-Propanediol, 2-amino-2-(hydroxymethyl)-:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro Test system: Chinese hamster lung cells Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 473 Result: negative GLP: yes

> 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: yes

> Test Type: Microbial mutagenesis assay (Ames test) Test system: Salmonella typhimurium Metabolic activation: with and without metabolic activation Method: OECD Test Guideline 471 Result: negative GLP: yes Remarks: Based on data from similar materials

Carcinogenicity

Not classified based on available information.

Components:

| glycerol: | | | |
|---|--|--|--|
| Species Application Ro Exposure time GLP Remarks | | | |
| IARC | No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. | | |
| OSHA | No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens. | | |
| NTP | No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. | | |
| Reproductive toxicity Not classified based on available information. | | | |
| Components: | | | |

glycerol:

Effects on fertility

: Test Type: Two-generation study Species: Rat, male and female



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| | | Application Rou Dose: 2000 mg Fertility: NOAEI GLP: no | | | | | |
| Effects on fetal develo | oment : | Application Rou Dose: 11.8, 54. Duration of Sing | | | | | |
| Methane, 1,1'-sulfinyl | bis-: | | | | | | |
| Effects on fertility | : | Fertility: NOAEI | | | | | |
| Effects on fetal develo | oment : | Duration of Sing Developmental | | | | | |
| 1,3-Propanediol, 2-an | 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-: | | | | | | |
| Effects on fertility | : | Species: Rat, m Application Rou Dose: 100, 300 General Toxicit General Toxicit Method: OECD | oductive and developmental toxicity study nale and female , te: Oral , 1000 mg/kg bw/day y Parent: NOAEL: > 1,000 mg/kg body weigh y F1: NOAEL: > 1,000 mg/kg body weight Test Guideline 421 testing did not show any effects on fertility. | | | | |
| Effects on fetal develo | oment : | General Toxicit weight Developmental Method: OECD Result: No effec GLP: yes | emale | | | | |



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STOT-single exposure

Causes damage to organs.

Components:

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

| Routes of exposure | : | Ingestion |
|--------------------|---|--------------------------|
| Target Organs | : | Central nervous system |
| Assessment | : | Causes damage to organs. |

STOT-repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

glycerol:

Dose

| Species NOAEL NOAEL Application Route Exposure time Number of exposures Dose GLP | Rat, male and female 4580 mg/kg 4,580 mg/kg Oral 90 d daily 4580 - 25,800 mg/kg/day no |
|--|---|
| Species Application Route Test atmosphere Exposure time Number of exposures Dose GLP | Rat, male and female Inhalation dust/mist 13 Weeks 6 hours/day, 5 days/week 33, 165 and 660 mg/m3 No information available. |
| Species NOAEL NOAEL Application Route Exposure time Number of exposures Dose GLP | Rat 5040 mg/kg 5,040 mg/kg dermal 45 Weeks 8 hours/day, 5 days/week 0.5-4.0 ml/kg no |
| Repeated dose toxicity - Assessment | : Mild eye irritant, Mild respiratory irritant, No skin irritation |
| Methane, 1,1'-sulfinylbis-: | |
| Species NOAEL NOAEL Application Route Exposure time | Monkey, male and female 2970 mg/kg 2,970 mg/kg Oral 87 Weeks |
| | |

990, 2970, 8910 mg/kg

:



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| Method GLP | : OECD Test : no | t Guideline 452 | | | | | | |
| Species NOAEC Application Route Test atmosphere Exposure time Dose Method GLP | | and female 4, 2.783 mg/l t Guideline 413 | | | | | | |
| Species NOAEL NOAEL Application Route Exposure time Dose Method GLP | : > 8910 mg/ : > 8,910 mg : Dermal : 18 Months : 990, 2970, | 0 | | | | | | |
| Repeated dose toxic Assessment | ity - : Mild eye irri | itation, Mild skin irritation | | | | | | |
| Methanaminium, N Species NOAEL Application Route Method GLP | N,N-trimethyl-, chloride : Rat : 5 mg/kg : Oral : OECD Test : yes | (1:1): : Guideline 421 | | | | | | |
| 1,3-Propanediol, 2- | 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-: | | | | | | | |
| Species NOAEL LOAEL Application Route Exposure time Number of exposure Dose Method GLP Remarks | : 62.5, 250, : OECD Test : yes | | | | | | | |
| Aspiration toxicity Not classified based | Aspiration toxicity Not classified based on available information. | | | | | | | |
| Eurther information | | | | | | | | |

Further information

Components:

Methanaminium, N,N,N-trimethyl-, chloride (1:1):

Remarks

: Other dangerous properties can not be excluded.



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KAPA hgDNA Quantification Primer Premixes (10X)

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

KAPA hgDNA Quantification Standards

Acute toxicity

Not classified based on available information.

Skin corrosion/irritation

Not classified based on available information.

SAFETY DATA SHEET



KAPA Human Genomic DNA Quantification and QC Kit (Light-Cycler 480)

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Serious eye damage/eye irritation

Not classified based on available information.

Respiratory or skin sensitization

Skin sensitization

Not classified based on available information.

Respiratory sensitization

Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

- **IARC** No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
- **OSHA** No component of this product present at levels greater than or equal to 0.1% is on OSHA's list of regulated carcinogens.
- **NTP** No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

STOT-single exposure

Not classified based on available information.

STOT-repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

SECTION 12. ECOLOGICAL INFORMATION

2x SYBR Fast Universal MM

| Ecotoxicity | | |
|---|---|---|
| Components: | | |
| 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 |



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|--|-----------------------|---|---|
| | | Exposure tim Test Type: st Analytical mo GLP: no | atic test |
| Toxicity to algae/aquatic plants | : | (Scenedesm End point: G Exposure tim Test Type: st GLP: no | ie: 8 d |
| Toxicity to microorganism | IS : | End point: G Exposure tim Test Type: st | ie: 16 h |
| Ecotoxicology Assessm | nent | | |
| 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 the environment | to : | No data avai | lable |
| Methane, 1,1'-sulfinylbis | S-: | | |
| Toxicity to fish | : | End point: m Exposure tim Test Type: st Analytical mo | ie: 96 h atic test |
| Toxicity to daphnia and or aquatic invertebrates | ther : | Exposure tim Test Type: st Analytical mo Method: OEC | atic test |
| Toxicity to algae/aquatic plants | : | mg/l End point: Gi Exposure tim Test Type: st Analytical mo | ie: 72 h atic test |
| Toxicity to microorganism | is : | EC50 (active | ted sludge): 10 - 100 mg/l |



| rsion) | Revision Date: 03-25-2022 | | Date of last issue: 10-11-2021 Date of first issue: 05-24-2016 | | | | |
|---|--|--|--|--|--|--|--|
| | | Exposure time Analytical mor Method: ISO 8 GLP: No inform | nitoring: no | | | | |
| Ecotoxicology Asses | sment | | | | | | |
| Toxicity Data on Soil | : | Not expected t | to adsorb on soil. | | | | |
| Other organisms relevation the environment | ant to : | No data availa | ble | | | | |
| Methanaminium, N,N | N-trimeth | yl-, chloride (1: | :1): | | | | |
| Toxicity to fish | : | Exposure time | ales promelas (fathead minnow)): 462 mg/l : 96 h D Test Guideline 203 | | | | |
| Toxicity to daphnia and aquatic invertebrates | d other : | EC50 (Daphni Exposure time GLP: yes | a magna (Water flea)): 0.16 mg/l : 11 d | | | | |
| | | NOEC (Daphn Exposure time GLP: yes | ia magna (Water flea)): 0.03 mg/l : 11 d | | | | |
| | | LC50 (Daphnia Exposure time GLP: yes | a magna (Water flea)): 1.86 mg/l : 48 h | | | | |
| Toxicity to algae/aquat plants | ic : | mg/l Exposure time | okirchneriella subcapitata (green algae)): 1 : 72 h D Test Guideline 201 | | | | |
| Ecotoxicology Asses | sment | | | | | | |
| Chronic aquatic toxicity | <i>י</i> : | Toxic to aquat | ic life with long lasting effects. | | | | |
| Toxicity Data on Soil | : | Not expected t | to adsorb on soil. | | | | |
| Other organisms relevation the environment | ant to : | No data availa | ble | | | | |
| 1 3-Pronanediol 2-an | 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-: | | | | | | |
| Toxicity to fish | : | LC50 (Fish): > Exposure time Test Type: sta Analytical mor Method: DIN 3 | 4,000 mg/l : 96 h tic test hitoring: no | | | | |
| | | GLP: no | | | | | |



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|---|--|---|--|--|
| aquatic invertebrates | Exposure Test Type: Analytical | End point: Immobilization Exposure time: 48 h Test Type: static test Analytical monitoring: yes Method: OECD Test Guideline 202 GLP: yes | | |
| Toxicity to algae/aqua plants | mg/l End point: Exposure f Test Type: Analytical Method: O | | | |
| Toxicity to microorga | End point: Exposure Test Type: Analytical | | | |
| Ecotoxicology Asse Toxicity Data on Soil | | red to adsorb on soil. | | |
| Other organisms relet the environment | vant to : No data av | ailable | | |
| Persistence and deg | gradability | | | |
| Components: | | | | |
| glycerol: Biodegradability | Concentra Result: Re | activated sludge tion: 226 mg/l adily biodegradable. ation: 94 % ime: 24 h | | |
| Methane, 1,1'-sulfin Biodegradability | : aerobic Inoculum: Concentra Result: No Biodegrad Exposure t | activated sludge tion: 2 mg/l t readily biodegradable. ation: 31 % ime: 28 d ECD Test Guideline 301D | | |

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KAPA Human Genomic DNA Quantification and QC Kit (Light-Cycler 480)VersionRevision Date:Date of last issue: 10-11-2021

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|---|---|--|--|--|--|--|--|--|
| Methanaminium, N | Methanaminium, N,N,N-trimethyl-, chloride (1:1): | | | | | | | |
| Biodegradability | | | | | | | | |
| 1.3-Propanediol. 2- | 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-: | | | | | | | |
| Biodegradability | : aerobic Inoculum Result: R Biodegrad Exposure | activated sludge eadily biodegradable. dation: 100 % time: 28 d DECD Test Guideline 301F | | | | | | |
| Bioaccumulative p | otential | | | | | | | |
| Components: | Components: | | | | | | | |
| glycerol: | | | | | | | | |
| Partition coefficient: octanol/water | pH: 7.4 | -1.75 (77 °F / 25 °C) DECD Test Guideline 107 | | | | | | |
| Methane, 1,1'-sulfi | Methane, 1,1'-sulfinylbis-: | | | | | | | |
| Partition coefficient: octanol/water | pH: 7 | -1.35 (68 °F / 20 °C) information available. | | | | | | |
| Methanaminium, N | ,N,N-trimethyl-, chlorid | le (1:1): | | | | | | |
| Partition coefficient: octanol/water | n- : Remarks | No data available | | | | | | |
| 1,3-Propanediol, 2- | 1,3-Propanediol, 2-amino-2-(hydroxymethyl)-: | | | | | | | |
| Bioaccumulation | | Due to the distribution coefficient n-octanol/water, tion in organisms is not expected. | | | | | | |
| Partition coefficient: octanol/water | 5 | -2.31 (68 °F / 20 °C) DECD Test Guideline 107 | | | | | | |
| Mobility in soil | | | | | | | | |
| No data available | | | | | | | | |
| Other adverse effe | Other adverse effects | | | | | | | |
| KAPA hgDNA Quar | ntification Primer P | remixes (10X) | | | | | | |

Ecotoxicity No data available

SAFETY DATA SHEET



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Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Other adverse effects

KAPA hgDNA Quantification Standards

Ecotoxicity No data available Persistence and degradability No data available Bioaccumulative potential No data available Mobility in soil No data available

Other adverse effects

SECTION 13. DISPOSAL CONSIDERATIONS

| Disposal methods | | |
|------------------------|--|--|
| Waste from residues | or used container nd to a licensed w | bonds, waterways or ditches with chemi- : aste management company. waste water, when in compliance with |
| Contaminated packaging | pty remaining cor pose of as unused pty containers sho ndling site for recy not re-use empty | d product. ould be taken to an approved waste cling or disposal. |

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code



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Not regulated as a dangerous good

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable Domestic regulation

Domestic regu

49 CFR

Not regulated as a dangerous good

Special precautions for user

Remarks

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

SECTION 15. REGULATORY INFORMATION

2x SYBR Fast Universal MM

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

| SARA 311/312 Hazards | : | Specific target organ toxicity (single or repeated exposure) |
|----------------------|---|---|
| SARA 313 | : | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

| glycerol | 56-81-5 | >= 10 - < 20 % |
|----------------------------|---------|----------------|
| Methane, 1,1'-sulfinylbis- | 67-68-5 | >= 5 - < 10 % |

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A: Glycine, N,N'-1,2-60-00-4 >= 0 - < 0.1 %

Glycine, N,N'-1,2ethanediylbis[N-(carboxymethyl)-

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:



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|------------------|---|----------------------------------|---|--|--|--|--|
| | Glycine, N,N'-1,2- ethanediylbis[N- | 60-00-4 | >= 0 - < 0.1 % | | | | |
| This prod 307 | (carboxymethyl)- uct does not contain any | y toxic pollutants li | sted under the U.S. Clean Water Act Section | | | | |
| | uct does not contain any | y priority pollutants | s related to the U.S. Clean Water Act | | | | |
| US State | US State Regulations | | | | | | |
| Massach | usetts Right To Know | | | | | | |
| | glycerol | | 56-81-5 | | | | |
| Pennsylv | vania Right To Know | | 7733 40 5 | | | | |
| | Water glycerol | | 7732-18-5 56-81-5 | | | | |
| | Methane, 1,1'-sulfinylbi | is- | 67-68-5 | | | | |
| Maine Ch | nemicals of High Conc | | | | | | |
| | Product does not conta | - | nicals | | | | |
| Vermont | Chemicals of High Co | | | | | | |
| | Product does not conta | - | nicals | | | | |
| wasning | Washington Chemicals of High Concern | | | | | | |
| Californi | Product does not contain any listed chemicals California Permissible Exposure Limits for Chemical Contaminants | | | | | | |
| Canonia | glycerol | | 56-81-5 | | | | |
| The ingre | edients of this product | are reported in t | he following inventories: | | | | |
| AIIC | : | Not in compliance | e with the inventory | | | | |
| DSL | : | This product con on the Canadian | tains the following components that are not DSL nor NDSL. | | | | |
| | | 2'-Deoxyguanosi | ne 5'-triphosphate trisodium salt | | | | |
| | | Adenosine 5'-(te | trahydrogen triphosphate), 2'-deoxy- | | | | |
| | | Thymidine 5'-(tet | rahydrogen triphosphate), sodium salt | | | | |
| | | 2'-Deoxycytidine | 5'-triphosphate disodium salt | | | | |
| | | SYBR Green I n | ucleic acid gel stain | | | | |
| NZIoC | : | Not in compliance | e with the inventory | | | | |
| ENCS | : | Not in compliance | e with the inventory | | | | |
| ISHL | : | Not in compliance | e with the inventory | | | | |
| KECI | : | Not in compliance | e with the inventory | | | | |
| PICCS | : | Not in compliance | e with the inventory | | | | |
| IECSC | : | Not in compliance | e with the inventory | | | | |



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|----------------|------------------------------|---|
| TCSI | : Not in complianc | e with the inventory |
| TSCA | : Product contains | substance(s) not listed on TSCA inventory. |
| TECI | : Not in complianc | e with the inventory |
| | | |

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA hgDNA Quantification Primer Premixes (10X)

CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

| SARA 302 Extremely Hazardous Substances Threshold Planning Quantity |
|--|
| This material does not contain any components with a section 202 EHS TPO |

| I his material does not conta | n any components with a section 302 EHS TP | Q. |
|-------------------------------|--|----|
| SARA 311/312 Hazarda | · No SARA Hazarda | |

| SARA STI/STZ Hazarus | · | NU SAINA Hazalus |
|----------------------|---|---|
| SARA 313 | : | This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. |

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.



| Cy | cler 480) | | | |
|-------------|-----------------------------------|--------------------------|----------------------------------|---|
| Vers 2.0 | ion | Revision D 03-25-2022 | | Date of last issue: 10-11-2021 Date of first issue: 05-24-2016 |
| | Pennsylvania Right | Fo Know | | |
| | Water | | | 7732-18-5 |
| | Maine Chemicals of Product doe | - | r n n any listed chem | nicale |
| | Vermont Chemicals | | - | |
| | | • | n any listed chem | nicals |
| | Washington Chemic | als of High | Concern | |
| | Product doe | es not contai | n any listed chem | nicals |
| | - | is product | - | he following inventories: |
| | AIIC | : | Not in compliance | e with the inventory |
| | DSL | : | This product con on the Canadian | tains the following components that are not DSL nor NDSL. |
| | | | Primer / Oligonu | cleotide / Probe |
| | NZIoC | : | On the inventory | , or in compliance with the inventory |
| | ENCS | : | Not in compliance | e with the inventory |
| | ISHL | : | Not in complianc | e with the inventory |
| | KECI | : | Not in complianc | e with the inventory |
| | PICCS | : | Not in complianc | e with the inventory |
| | IECSC | : | Not in complianc | e with the inventory |
| | TCSI | : | Not in complianc | e with the inventory |
| | TSCA | : | Product contains | substance(s) not listed on TSCA inventory. |
| | TECI | : | Not in complianc | e with the inventory |

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

KAPA hgDNA Quantification Standards

CERCLA Reportable Quantity

Listed substances in the product are at low enough levels to not be expected to exceed the RQ

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.



| /ersi 2.0 | ion | Revision Date: 03-25-2022 | Date of last issue: 10-11-2021 Date of first issue: 05-24-2016 | |
|----------------------|--|---|--|---|
| | - | | s Threshold Planning Quantity with a section 302 EHS TPQ. | |
| | SARA 311/312 Hazar | ds : No SARA Ha | azards | |
| | SARA 313 | known CAS i | I does not contain any chemical components with numbers that exceed the threshold (De Minimis) els established by SARA Title III, Section 313. | |
| | Clean Air Act | | | |
| | the U.S. Clean Air Act This product does not Air Act Section 112 (4 This product does not Accidental Release Pr This product does not | Section 602 (40 CFR 82, contain any hazardous ai 0 CFR 61). contain any chemicals lis evention (40 CFR 68.130 | ir pollutants (HAP), as defined by the U.S. Clean ted under the U.S. Clean Air Act Section 112(r) f), Subpart F). ted under the U.S. Clean Air Act Section 111 | |
| | Clean Water Act | | | |
| | ble 116.4A: Hydrochlori The following Hazardo | c acid 7647-01-0 | under the U.S. CleanWater Act, Section 311, Ta >= 0 - < 0.1 % under the U.S. CleanWater Act, Section 311, Tab | |
| | 307 | contain any toxic pollutar |) >= 0 - < 0.1 % hts listed under the U.S. Clean Water Act Section cants related to the U.S. Clean Water Act | ı |
| US State Regulations | | | | |
| | Massachusetts Righ | t To Know | | |
| | Hydrochlori | c acid | 7647-01-0 | |
| | Pennsylvania Right Water Hydrochlori | | 7732-18-5 7647-01-0 | |
| | Maine Chemicals of | High Concern | | |
| | Product doe | es not contain any listed c | hemicals | |
| | Vermont Chemicals | of High Concern es not contain any listed c | hemicals | |
| | Washington Chemic Product doe | als of High Concern es not contain any listed c | hemicals | |
| | - | • | in the following inventories: | |
| | AIIC | : On the inven | tory, or in compliance with the inventory | |
| | DSL | : All componer | nts of this product are on the Canadian DSL | |
| | NZIoC | : On the inven | tory, or in compliance with the inventory | |
| | | | | |



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|----------------|------------------------------|---|
| ENCS | : Not in complian | nce with the inventory |
| ISHL | : Not in complian | nce with the inventory |
| KECI | : On the inventor | y, or in compliance with the inventory |
| PICCS | : On the inventor | y, or in compliance with the inventory |
| IECSC | : On the inventor | y, or in compliance with the inventory |
| TCSI | : On the inventor | y, or in compliance with the inventory |
| TSCA | : All substances | listed as active on the TSCA inventory |
| TECI | : Not in complian | nce with the inventory |

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

2x SYBR Fast Universal MM

| GHS label elements Hazard pictograms | : | |
|---|---|--|
| Signal Word | : | Danger |
| Hazard Statements | : | H370 Causes damage to organs. |
| Precautionary Statements | : | Prevention: P260 Do not breathe mist or vapors. P264 Wash skin thoroughly after handling. P270 Do not eat, drink or smoke when using this product. |
| | | Response: P307 + P311 IF exposed: Call a POISON CENTER or doctor/ physician. Storage: |
| | | P405 Store locked up. Disposal: P501 Dispose of contents/ container to an approved waste disposal plant. |

KAPA hgDNA Quantification Primer Premixes (10X)

SAFETY DATA SHEET



KAPA Human Genomic DNA Quantification and QC Kit (Light-Cycler 480)

Version 2.0 Revision Date: 03-25-2022

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GHS label elements

Not a hazardous substance or mixture. *KAPA hgDNA Quantification Standards*

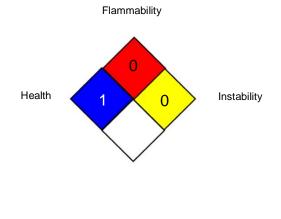
GHS label elements

Not a hazardous substance or mixture.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



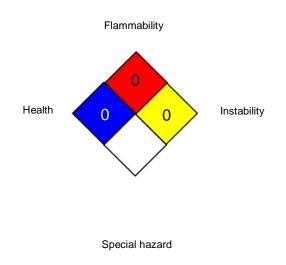
Special hazard

HMIS® IV:

| HEALTH | / | 4 |
|-----------------|---|---|
| FLAMMABILITY | | 0 |
| PHYSICAL HAZARD | | 0 |

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

NFPA 704:

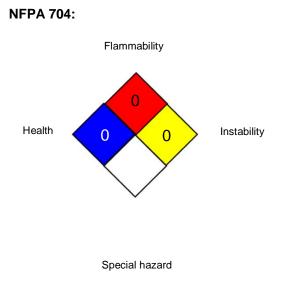


HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard. Version

2.0



KAPA Human Genomic DNA Quantification and QC Kit (Light-Cycler 480)

Revision Date:

03-25-2022

Date of last issue: 10-11-2021 Date of first issue: 05-24-2016 Roche

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance: 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; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; 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; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; 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; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity: SADT - Self-Accelerating Decomposition Temperature: SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative



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