

# **SAFETY DATA SHEET**

**United States** 

Section 1. Identification

Other means of identification

**Product name** 

GenomiPhi V3 RTG Plate; part of, 'illustra™ Ready-To-Go™ GenomiPhi™ V3 DNA **Amplification Kit, 96 reactions'** 

Catalogue Number

25-6601-96

Not available. Solid

Product type

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

Identified uses

Use in laboratories

Industrial applications: Analytical reagent. Research.

Supplier

Cvtiva Amersham Place Little Chalfont Buckinghamshire

HP7 9NA United Kingdom +44 0800 515 313

Cvtiva USA 100 Results Way

Marlborough, MA 01752 1-800-526-3593

In case of emergency ChemTrec US (available 24/7) 1-800-424-9300

Section 2. Hazards identification

**OSHA/HCS** status While this material is not considered hazardous by the OSHA Hazard Communication Standard (29

CFR 1910.1200), this MSDS contains valuable information critical to the safe handling and proper use of the product. This MSDS should be retained and available for employees and other users of

this product

Classification of the substance

or mixture

Not classified.

Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 69.8% Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic

environment: 69.8%

**GHS label elements** 

Signal word No signal word.

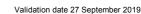
**Hazard statements** No known significant effects or critical hazards.

**Precautionary statements** 

Prevention Not applicable. Response Not applicable. Storage Not applicable. Not applicable. Disposal Hazards not otherwise None known. classified

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# Section 3. Composition/information on ingredients

Substance/mixture Mixture
Other means of identification Not available.

**CAS number/other identifiers** 

CAS number Not applicable.

Ingredient name%CAS numbermagnesium chloride1.617786-30-3Tris(hydroxymethyl)aminomethane1.0377-86-1

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

# Section 4. First aid measures

### **Description of necessary first aid measures**

Eye contact Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check

for and remove any contact lenses. Get medical attention if irritation occurs.

**Inhalation** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical

attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

Ingestion Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable

for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel.

Get medical attention if symptoms occur.

### Most important symptoms/effects, acute and delayed

### Potential acute health effects

Skin contact

**Eye contact** No known significant effects or critical hazards.

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

Skin contact

No known significant effects or critical hazards.

Ingestion

No known significant effects or critical hazards.

### Over-exposure signs/symptoms

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed

person may need to be kept under medical surveillance for 48 hours.

**Specific treatments** No specific treatment.

**Protection of first-aiders**No action shall be taken involving any personal risk or without suitable training.

See toxicological information (Section 11)

### Section 5. Fire-fighting measures

### **Extinguishing media**

**Suitable extinguishing media** Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing

media

None known.

Specific hazards arising from

decomposition products

the chemical

No specific fire or explosion hazard.

Hazardous thermal Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

Special protective actions for

fire-fighters

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire.

No action shall be taken involving any personal risk or without suitable training.

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Special protective equipment for fire-fighters

**Environmental precautions** 

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel No action shall be taken involving any personal risk or without suitable training. Evacuate

surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or

walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders**If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways,

soil or air).

#### Methods and materials for containment and cleaning up

Small spill Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled

waste container. Dispose of via a licensed waste disposal contractor.

Large spill Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose

areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information

and Section 13 for waste disposal.

# Section 7. Handling and storage

### Precautions for safe handling

Protective measures Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store between the following temperatures: 18 to 25°C (64.4 to 77°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

trometamol

Appropriate engineering

controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### **Individual protection measures**

Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

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Validation date 27 September 2019

# Section 9. Physical and chemical properties

**Appearance** 

Physical state Solid. Color White. Odor Odorless. Odor threshold Not available. pН Not available. **Melting point** Not available. **Boiling point** Not available. Flash point Not available. **Burning time** Not available. Not available. **Burning rate Evaporation rate** Not available. Flammability (solid, gas) Not available. Lower and upper explosive Not available.

(flammable) limits

Vapor pressure
Vapor density
Relative density
Solubility
Not available.
Not available.
Not available.
Not available.
Not available.
Partition coefficient: n-octanol/
Not available.

water

Auto-ignition temperature

Decomposition temperature

SADT

Not available.

Not available.

Viscosity

Not available.

Not available.

Not available.

Not available.

**Aerosol product** 

### Section 10. Stability and reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

Chemical stability The product is stable.

Possibility of hazardous

reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid No specific data.

Incompatible materials No specific data.

Hazardous decomposition Under normal conditions of storage and use, hazardous decomposition products should not be

**products** produced.

### Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity

Product/ingredient nameResultSpeciesDoseExposuremagnesium chlorideLD50 OralRat2800 mg/kg-

#### Irritation/Corrosion

Not available.

### Sensitization

Not available.

### **Mutagenicity**

Not available.

# Carcinogenicity

Not available.

### Reproductive toxicity

Not available.

#### **Teratogenicity**

Not available.

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

Not available.

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

Not available.

#### **Aspiration hazard**

Not available.

Information on the likely routes

Not available.

of exposure

#### Potential acute health effects

**Eye contact** No known significant effects or critical hazards.

Inhalation Exposure to decomposition products may cause a health hazard. Serious effects may be delayed

following exposure.

**Skin contact**No known significant effects or critical hazards.
Ingestion
No known significant effects or critical hazards.

### Symptoms related to the physical, chemical and toxicological characteristics

Eye contactNo specific data.InhalationNo specific data.Skin contactNo specific data.IngestionNo specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

#### **Short term exposure**

Potential immediate effects Not available.

Potential delayed effects Not available.

Long term exposure

Potential immediate effects Not available.

Potential delayed effects Not available.

#### Potential chronic health effects

Not available.

GeneralNo known significant effects or critical hazards.CarcinogenicityNo known significant effects or critical hazards.MutagenicityNo known significant effects or critical hazards.TeratogenicityNo known significant effects or critical hazards.Developmental effectsNo known significant effects or critical hazards.Fertility effectsNo known significant effects or critical hazards.

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/ I)
GenomiPhi V3 RTG Plate; part of, 'illustra Ready-To-Go GenomiPhi V3 DNA Amplification Kit 96 reactions'	52504.3	N/A	N/A	N/A	N/A

# Section 12. Ecological information

### **Toxicity**

Product/ingredient name	Result	Species	Exposure
magnesium chloride	Acute EC50 140000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute IC50 6.8 mg/l Fresh water	Aquatic plants - Lemna aequinoctialis	96 hours
	Acute LC50 832 mg/l Marine water	Crustaceans - Americamysis bahia	48 hours
	Acute LC50 16500 ppm Fresh water	Fish - Gambusia affinis - Adult	96 hours

### Persistence and degradability

 Product/ingredient name
 Aquatic half-life
 Photolysis
 Biodegradability

 Tris(hydroxymethyl)
 Readily

#### **Bioaccumulative potential**

Not available.

aminomethane

# Mobility in soil

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Soil/water partition coefficient (K

Other adverse effects No known significant effects or critical hazards.

Not available.

### Section 13. Disposal considerations

Disposal methods The generation of waste should be avoided or minimized wherever possible. Disposal of this

product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

# Section 14. Transport information

Product is not regulated as dangerous goods for transport.

# Section 15. Regulatory information

U.S. Federal regulations TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Air Act Section 112(b) Hazardous Air Pollutants Not listed

(HAPs)

Clean Air Act Section 602 Class I Substances Not listed Clean Air Act Section 602 Class II Substances Not listed **DEA List I Chemicals (Precursor Chemicals)** Not listed **DEA List II Chemicals (Essential Chemicals)** Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ Not applicable.

**SARA 311/312** 

Classification Not applicable.

Composition/information on ingredients

Name Classification %

SKIN IRRITATION - Category 2 trometamol ≤3

EYE IRRITATION - Category 2A

State regulations

Massachusetts None of the components are listed. **New York** None of the components are listed. **New Jersey** None of the components are listed. Pennsylvania None of the components are listed.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed

Stockholm Convention on Persistent Organic Pollutants

Not listed

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

**United States** Not determined. Europe Not determined. Canada inventory Not determined.

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### Section 16. Other information

### National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

#### Procedure used to derive the classification

Classification Justification

Not classified.

**History** 

 Date of printing
 4/30/2020

 Date of issue/Date of revision
 9/27/2019

 Date of previous issue
 1/23/2017

 Version
 4

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**Key to abbreviations** ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified

by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available UN = United Nations

References Not available.

Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.