| 22.02.2024   | Kit components                     |  |
|--------------|------------------------------------|--|
| Product code | Description                        |  |
| 3310-0010    | GSP Neonatal G6PD Kit<br>3310-0010 |  |
| Components:  |                                    |  |
| 4000-00-     |                                    |  |

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

| 13807807 | G6PD Substrate 1 (NADP) |
|----------|-------------------------|
| 13807715 | G6PD Assay Buffer       |
| 13807813 | G6PD Substrate 2 (G6P)  |





Printing date 22.02.2024 Version number 6 Revision: 07.11.2023

#### 1 Identification

- · Product identifier
- · Trade name: G6PD Substrate 1 (NADP)
- · Article number: 13807807
- CAS Number: 698999-85-8
- · Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- Application of the substance / the mixture

In vitro diagnostics Laboratory chemicals

- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Revvity Inc. Wallac Ov

P.O. Box 10

FI-20101 Turku

Finland

+358 2 2678 111

· Further information obtainable from:

Product safety department.

MSDS Turku@revvity.com

· Emergency telephone number:

CHEMTREC (whithin U.S.) 800 424-9300

CHEMTREC (from outside U.S.) +1-703-572-3887

### 2 Hazard identification

· Classification of the substance or mixture



Serious eye damage/irritation – Category 2A H319 Causes serious eye irritation.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Irritant

R36: Irritating to eyes.

- Information concerning particular hazards for human and environment: Not applicable.
- · Label elements
- · GHS label elements

The product is labelled according to the IVD regulation

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



(Contd. on page 2)

(Contd. of page 1)

### Safety Data Sheet according to GHS

Printing date 22.02.2024 Version number 6 Revision: 07.11.2023

Trade name: G6PD Substrate 1 (NADP)

· Signal word Warning

· Hazard statements

Causes serious eye irritation.

· Precautionary statements

Wash thoroughly after handling.

*Wear eye protection / face protection.* 

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

#### 3 Composition / information on ingredients

- · Chemical characterisation: Substances
- · CAS No. Description

698999-85-8  $\beta$ -Nicotinamide adenine dinucleotide phosphate sodium salt hydrate

#### 4 First-aid measures

- · Description of first aid measures
- · 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. If symptoms persist, consult a doctor.

- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters
- · **Protective equipment:** No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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Printing date 22.02.2024 Version number 6 Revision: 07.11.2023

Trade name: G6PD Substrate 1 (NADP)

(Contd. of page 2)

### 7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep container tightly sealed.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls / personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

- Avoid contact with the eyes and skin.
- · Respiratory protection: Not required.
- · Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to 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 the degradation

· 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.

· 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:



Tightly sealed goggles

Printing date 22.02.2024 Version number 6 Revision: 07.11.2023

Trade name: G6PD Substrate 1 (NADP)

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### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

Printing date 22.02.2024 Version number 6 Revision: 07.11.2023

Trade name: G6PD Substrate 1 (NADP)

(Contd. of page 4)

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation Irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.

#### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.

| UN-Number                                       |                 |  |
|---|-----------------|--|
| ADR, ADN, IMDG, IATA                            | Void            |  |
| UN proper shipping name<br>ADR, ADN, IMDG, IATA | Void            |  |
| Transport hazard class(es)                      |                 |  |
| ADR, ADN, IMDG, IATA                            |                 |  |
| Class   | Void            |  |
| Packing group                                   |                 |  |
| ADR, IMDG, IATA                                 | Void            |  |
| Environmental hazards:                          |                 |  |
| Marine pollutant:                               | Not applicable  |  |
| Special precautions for user                    | Not applicable. |  |
| Transport in bulk according to Annex II of      |                 |  |
| and the IBC Code                                | Not applicable. |  |

(Contd. on page 6)

Printing date 22.02.2024 Version number 6 Revision: 07.11.2023

Trade name: G6PD Substrate 1 (NADP)

(Contd. of page 5)

· UN "Model Regulation":

Void

#### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Philippines Inventory of Chemicals and Chemical Substances

Substance is not listed.

· GHS label elements

The substance is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



- · Signal word Warning
- · Hazard statements

Causes serious eye irritation.

· Precautionary statements

Wash thoroughly after handling.

Wear eye protection / face protection.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I Substance is not listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- · Department issuing SDS: Product safety department.
- · Contact: MSDS\_Turku@revvity.com
- Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Serious eye damage/irritation - Category 2A: Serious eye damage/eye irritation - Category 2A





Printing date 22.02.2024 Version number 5 Revision: 07.11.2023

#### 1 Identification

· Product identifier

· Trade name: G6PD Assay Buffer

· Article number: 13807715

- · Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture

In vitro diagnostics Laboratory chemicals

- Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Revvity Inc.
Wallac Oy
P.O. Box 10
FI-20101 Turku
Finland
+358 2 2678 111

· Further information obtainable from:

Product safety department. MSDS\_Turku@revvity.com

· Emergency telephone number:

CHEMTREC (whithin U.S.) 800 424-9300

CHEMTREC (from outside U.S.) +1-703-572-3887

### 2 Hazard identification

· Classification of the substance or mixture



Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- · Information concerning particular hazards for human and environment: Not applicable.
- · Classification system:

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

- · Label elements
- · GHS label elements

The product is labelled according to the IVD regulation

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



· Signal word Warning

(Contd. on page 2)

Printing date 22.02.2024 Version number 5 Revision: 07.11.2023

Trade name: G6PD Assay Buffer

(Contd. of page 1)

#### · Hazard-determining components of labelling:

2-methyl-2H-isothiazol-3-one

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

### 3 Composition / information on ingredients

- · Chemical characterisation: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

| · Dangerous compon  | nents:  |                 |
|---------------------|---|-----------------|
| <u>₩</u> T R2       | $(1-2H-isothiazol-3-one)$ $(24/25)$ $\bigcirc$ | ≥0.0015-<0.025% |
| · Other ingredients |   |                 |
| 7732-18-5 water     |   | 95-100%         |
| 637-39-8 tris(2-hy  | ydroxyethyl)ammonium chloride   | 1-2.5%          |
| 7791-18-6 magnesi   | ium chloride, hexahydrate   | < 0.25%         |

### · Additional information: For the wording of the listed hazard phrases refer to section 16.

#### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- $\cdot \textit{After skin contact:} \ Immediately \ wash \ with \ water \ and \ soap \ and \ rinse \ thoroughly.$
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

Printing date 22.02.2024 Version number 5 Revision: 07.11.2023

Trade name: G6PD Assay Buffer

(Contd. of page 2)

- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling:
- Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls / personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · Control parameters
- · 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.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

Printing date 22.02.2024 Version number 5 Revision: 07.11.2023

Trade name: G6PD Assay Buffer

(Contd. of page 3)

Due to missing tests no recommendation to 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 the degradation

· 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: Goggles recommended during refilling

| Information on basis abusis at and at an                        | ical nyonavias                                |
|---|---|
| Information on basic physical and chemic<br>General Information | icai properties                               |
| Appearance:   |   |
| Form:   | Solution                                      |
| Colour:   | Colourless                                    |
| Odour:  | Sulfurous                                     |
| Odour threshold:  | Not determined.                               |
| pH-value at 20 °C:  | 8-8.2   |
| Change in condition   |   |
| Melting point/freezing point:                                   | 0 °C  |
| Initial boiling point and boiling range:                        | 100 °C  |
| Flash point:  | Not applicable.                               |
| Flammability (solid, gas):                                      | Not applicable.                               |
| Decomposition temperature:                                      | Not determined.                               |
| Ignition temperature:   | Product is not selfigniting.                  |
| Explosive properties:   | Product does not present an explosion hazard. |
| Explosion limits:   |   |
| Lower:  | Not determined.                               |
| Upper:  | Not determined.                               |
| Vapour pressure at 20 °C:                                       | 23 hPa  |
| Density at 20 °C:   | $1 \text{ g/cm}^3$                            |
| Relative density  | Not determined.                               |
| Vapour density  | Not determined.                               |
| Evaporation rate  | Not determined.                               |
| Solubility in / Miscibility with                                |   |
| water:  | Fully miscible.                               |
| Partition coefficient: n-octanol/water:                         | Not determined.                               |
| Viscosity:  |   |
| Dynamic at 20 °C:   | 0.952 mPas                                    |
| Kinematic:  | Not determined.                               |
| Solvent content:  |   |
| Water:  | 97.8 %  |
| Solids content:   | 1.9 %   |

Printing date 22.02.2024 Version number 5 Revision: 07.11.2023

Trade name: G6PD Assay Buffer

(Contd. of page 4)

· Other information

No further relevant information available.

#### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation Sensitisation possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

#### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

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Printing date 22.02.2024 Version number 5 Revision: 07.11.2023

Trade name: G6PD Assay Buffer

(Contd. of page 5)

| Void            |   |
|-----------------|---|
| roiu            |   |
| Void            |   |
|                 |   |
| Void            |   |
| Void            |   |
| Not applicable  |   |
| Not applicable. |   |
| Marpol          |   |
| Not applicable. |   |
|                 | Void  Void  Not applicable  Not applicable.  Marpol |

### 15 Regulatory information

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

|           | s Inventory of Chemicals and Chemical Substances |
|-----------|--|
| 7732-18-5 | water  |
| 7791-18-6 | magnesium chloride, hexahydrate                  |
| 2682-20-4 | 2-methyl-2H-isothiazol-3-one                     |
| 65-85-0   | Benzoic acid                                     |

#### · GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



- · Signal word Warning
- Hazard-determining components of labelling:

2-methyl-2H-isothiazol-3-one

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.

(Contd. on page 7)

Printing date 22.02.2024 Version number 5 Revision: 07.11.2023

Trade name: G6PD Assay Buffer

(Contd. of page 6)

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R24/25 Toxic in contact with skin and if swallowed.
- R34 Causes burns.
- R43 May cause sensitisation by skin contact.
- · Department issuing SDS: Product safety department.
- · Contact: MSDS Turku@revvity.com
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity - Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1





Printing date 22.02.2024 Version number 7 Revision: 07.11.2023

#### 1 Identification

· Product identifier

· Trade name: G6PD Substrate 2 (G6P)

· Article number: 13807813

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

· Product category PC21 Laboratory chemicals

· Application of the substance / the mixture

In vitro diagnostics Laboratory chemicals

Details of the supplier of the safety data sheet

· Manufacturer/Supplier:

Revvity Inc.
Wallac Oy
P.O. Box 10
FI-20101 Turku
Finland
+358 2 2678 111

· Further information obtainable from:

Product safety department. MSDS\_Turku@revvity.com

· Emergency telephone number:

CHEMTREC (whithin U.S.) 800 424-9300

CHEMTREC (from outside U.S.) +1-703-572-3887

### 2 Hazard identification

· Classification of the substance or mixture



Skin Sens. 1 H317 May cause an allergic skin reaction.

- · Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- · Information concerning particular hazards for human and environment: Not applicable.
- · Classification system:

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

- · Label elements
- · GHS label elements

The product is labelled according to the IVD regulation

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



· Signal word Warning

(Contd. on page 2)

Printing date 22.02.2024 Version number 7 Revision: 07.11.2023

Trade name: G6PD Substrate 2 (G6P)

(Contd. of page 1)

#### Hazard-determining components of labelling:

2-methyl-2H-isothiazol-3-one

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

#### 3 Composition / information on ingredients

- · Chemical characterisation: Mixtures
- · **Description:** Mixture of substances listed below with nonhazardous additions.

| Description  | i. Mixture of substances listed below with nonnazarabas additions.   |                 |
|--------------|--|-----------------|
| · Dangerous  | s components:  |                 |
| 2682-20-4    | 2-methyl-2H-isothiazol-3-one   | ≥0.0015-<0.025% |
|              | 😡 T R24/25; 🔁 C R34; 🗙 Xi R43  |                 |
|              | Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 2, H330; $\bigotimes$ Skin Corr. 1B, H314; Eye Dam. 1, H318; $\bigotimes$ Aquatic Acute 1, H400 (M=10); Aquatic Chronic 1, H410 (M=1); $\bigotimes$ Skin Sens. 1A, H317 Specific concentration limit: Skin Sens. 1A; H317: $C \ge 0.0015$ % |                 |
| · Other ingr | edients  |                 |
| 7732-18-5    | water  | 95-100%         |
| 3671-99-6    | G6PD, D-Glucose 6-phosphate disodium salt hydrate  | 1-2.5%          |
| 637-39-8     | tris(2-hydroxyethyl)ammonium chloride  | <0.25%          |
| · Additional | information: For the wording of the listed hazard phrases refer to section 16.   |                 |

#### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation:

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

- · After skin contact: Immediately wash with water and soap and rinse thoroughly.
- · After eve contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Information for doctor:
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- · Special hazards arising from the substance or mixture No further relevant information available.

(Contd. on page 3)

Printing date 22.02.2024 Version number 7 Revision: 07.11.2023

Trade name: G6PD Substrate 2 (G6P)

(Contd. of page 2)

- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- · Environmental precautions: Dilute with plenty of water.
- · Methods and material for containment and cleaning up:

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s) No further relevant information available.

#### 8 Exposure controls / personal protection

- · Additional information about design of technical facilities: No further data; see section 7.
- · Control parameters
- · 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.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Protection of hands:



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

(Contd. on page 4)

Printing date 22.02.2024 Version number 7 Revision: 07.11.2023

Trade name: G6PD Substrate 2 (G6P)

(Contd. of page 3)

Due to missing tests no recommendation to 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 the degradation

· 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: Goggles recommended during refilling

| Information on basic physical and chem                        | ical proparties                               |
|---|---|
| Injormation on vasic physical and chem<br>General Information | icai properties                               |
| Appearance:   |   |
| Form:   | Fluid   |
| Colour:   | According to product specification            |
| Odour:  | Characteristic                                |
| Odour threshold:  | Not determined.                               |
| pH-value at 20°C:   | 7.3   |
| Change in condition   |   |
| Melting point/freezing point:                                 | 0 °C  |
| Initial boiling point and boiling range:                      | · 100 °C                                      |
| Flash point:  | Not applicable.                               |
| Flammability (solid, gas):                                    | Not applicable.                               |
| Decomposition temperature:                                    | Not determined.                               |
| Ignition temperature:   | Product is not selfigniting.                  |
| Explosive properties:   | Product does not present an explosion hazard. |
| Explosion limits:   |   |
| Lower:  | Not determined.                               |
| Upper:  | Not determined.                               |
| Vapour pressure at 20°C:                                      | 23 hPa  |
| Density at 20 °C:   | $1.01 \text{ g/cm}^3$                         |
| Relative density  | Not determined.                               |
| Vapour density  | Not determined.                               |
| Evaporation rate  | Not determined.                               |
| Solubility in / Miscibility with                              |   |
| water:  | Fully miscible.                               |
| Partition coefficient: n-octanol/water:                       | Not determined.                               |
| Viscosity:  |   |
| Dynamic at 20 °C:   | 0.952 mPas                                    |
| Kinematic:  | Not determined.                               |
| Solvent content:  |   |
| Water:  | 97.6 %  |

Printing date 22.02.2024 Version number 7 Revision: 07.11.2023

Trade name: G6PD Substrate 2 (G6P)

(Contd. of page 4)

· Other information

No further relevant information available.

#### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity
- · Primary irritant effect:
- · Skin corrosion/irritation No irritant effect.
- · Serious eve damage/irritation No irritating effect.
- · Respiratory or skin sensitisation Sensitisation possible through skin contact.
- · Additional toxicological information:

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

#### 12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behaviour in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · *Mobility in soil* No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation: Hand over to hazardous waste disposers.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

Printing date 22.02.2024 Version number 7 Revision: 07.11.2023

Trade name: G6PD Substrate 2 (G6P)

(Contd. of page 5)

| UN-Number                                       |                 |  |
|---|-----------------|--|
| ADR, ADN, IMDG, IATA                            | Void            |  |
| UN proper shipping name<br>ADR, ADN, IMDG, IATA | Void            |  |
| Transport hazard class(es)                      |                 |  |
| ADR, ADN, IMDG, IATA                            |                 |  |
| Class   | Void            |  |
| Packing group                                   |                 |  |
| ADR, IMDG, IATA                                 | Void            |  |
| Environmental hazards:                          |                 |  |
| Marine pollutant:                               | Not applicable  |  |
| Special precautions for user                    | Not applicable. |  |
| Transport in bulk according to Annex I          | T of Marpol     |  |
| and the IBC Code                                | Not applicable. |  |
| •   |                 |  |

### 15 Regulatory information

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

| · Philippines Inventory of Chemicals and Chemical Substances |                              |
|--|------------------------------|
| 7732-18-5  | water                        |
| 2682-20-4  | 2-methyl-2H-isothiazol-3-one |
| 65-85-0  | Benzoic acid                 |

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



- · Signal word Warning
- · Hazard-determining components of labelling:

2-methyl-2H-isothiazol-3-one

· Hazard statements

May cause an allergic skin reaction.

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapours/spray.

Wear protective gloves.

Take off contaminated clothing and wash it before reuse.

If skin irritation or rash occurs: Get medical advice/attention.

Specific treatment (see on this label).

Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Printing date 22.02.2024 Version number 7 Revision: 07.11.2023

Trade name: G6PD Substrate 2 (G6P)

(Contd. of page 6)

#### 16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

#### · Relevant phrases

- H301 Toxic if swallowed.
- H311 Toxic in contact with skin.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H330 Fatal if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R24/25 Toxic in contact with skin and if swallowed.
- R34 Causes burns.
- R43 May cause sensitisation by skin contact.
- · Department issuing SDS: Product safety department.
- · Contact: MSDS Turku@revvity.com
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 2: Acute toxicity - Category 2

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Eye Dam. 1: Serious eye damage/eye irritation - Category 1

Skin Sens. 1: Skin sensitisation – Category 1

Skin Sens. 1A: Skin sensitisation - Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard - Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Čategory 1