

**Agilent Technologies** 

## Kit Name: PNGase F (native, Elizabethkingia meningoseptica)

## Kit PN: GKE-5003

This product is a multi-level kit, composed of the following modules and individual chemical components:

#### **Kit Components**

Kit Component Part Number	Kit Component Name	Kit Component Part Number	Kit Component Name	Qty
		WS0012	Denaturation Solution, 500 μl	1 Vial
W60400		WS0013	Detergent Solution, 200 µl	1 Vial
WS0400	PNGase F Reagent Set	WS0067	5x Reaction buffer for GKE- 5003, 1 ml	1 Vial
GKE-5003	PNGase F (native, Elizabethkingia meningoseptica), 100 mU		1 Vial	

SDSs for each component follow this cover sheet.

## Transportation Information for the Kit:

#### Proper Shipping Names:

DOT	ΙΑΤΑ/ΙCΑΟ	China
Not Regulated	Not Regulated	Not Regulated



Revision Date: 25.01.2022

Issue Date: 25.01.2022

# 1 Identification Product identifier Trade name: PNGase F (native, Elizabethkingia meningoseptica) Article number: GKE-5003 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use Details of the supplier of the safety data sheet Manufacturer/Supplier: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave

Victoria 3170, Australia

- Email: pdl-msds\_author@agilent.com
- Phone number: 1800 802 402

\* Emergency telephone number: CHEMTREC®: +(61)-290372994

## 2 Hazard(s) Identification

<sup>•</sup> Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- Other hazards
- <sup>•</sup> Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

#### **3** Composition and Information on Ingredients

- <sup>•</sup> Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Void
- Additional information: For the wording of the listed hazard phrases refer to section 16.

## 4 First Aid Measures

- <sup>•</sup> Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.

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

#### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective gloves / eye protection / face protection.
- **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).

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 Wear protective gloves / eye protection / face protection.
- · 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 and personal protection

• Additional information about design of technical facilities: No further data; see item 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.

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#### • Exposure controls

· Personal protective equipment:

General protective and hygienic measures:

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

- Respiratory protection: Not required.
- Protection of hands:

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

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves Wear suitable gloves.
- · 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:** Wear eye protection / face protection.

## 9 Physical and Chemical Properties

Information on basic physical and ch General Information	
Appearance:	
Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	7.5
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.
Auto-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 g/cm <sup>3</sup>
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
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Kinematic:	Not determined.	
<ul> <li>Solvent content: Water:</li> </ul>	98.0 %	
Solids content:	1.2 %	
<sup>.</sup> Other information	No further relevant information available.	

## **10 Stability and Reactivity**

· Reactivity No further relevant information available.

- <sup>·</sup> 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 May be harmful in contact with skin.
- · Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

## **12 Ecological Information**

- <sup>.</sup> 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.
- <sup>•</sup> Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.
- Other adverse effects No further relevant information available.

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## 13 Disposal considerations

<sup>·</sup> Waste treatment methods

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

<sup>·</sup> Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

\* Recommended cleansing agents: Water, if necessary together with cleansing agents.

4 Transport information		
Not Regulated, De minimis Quantities		
<sup>·</sup> UN-Number <sup>·</sup> ADG, ADN, IMDG, IATA	not regulated	
<sup>·</sup> UN proper shipping name <sup>·</sup> ADG, ADN, IMDG, IATA	not regulated	
· Transport hazard class(es)		
<sup>·</sup> ADG, ADN, IMDG, IATA · Class	not regulated	
· Packing group · ADG, IMDG, IATA	not regulated	
· Environmental hazards:	Not applicable.	
· Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex II o the IBC Code</li> </ul>	of Marpol and Not applicable.	-
· UN "Model Regulation":	not regulated	

## 15 Regulatory information

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

· Australian I	nventory of Industrial Chemicals	
7732-18-5	water, distilled, conductivity or of similar purity	
77-86-1	trometamol	
127-09-3	sodium acetate	
7647-14-5	sodium chloride	
6381-92-6	Ethylenediaminetetraacetic Acid Disodium Salt Dihydrate	
26628-22-8	sodium azide	
· Standard fo	r the Uniform Scheduling of Medicines and Poisons	
77-86-1 tror	netamol	S4
· Australia: P	riority Existing Chemicals	
None of the	ingredients is listed.	
GHS label	elements Void	
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- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- <sup>•</sup> 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.

## 16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.



Revision Date: 25.01.2022

Issue Date: 25.01.2022

## **1** Identification <sup>•</sup> Product identifier • Trade name: Denaturation Solution · Article number: WS0012 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available. · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use Details of the supplier of the safety data sheet Manufacturer/Supplier: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia · Email: pdl-msds author@agilent.com • Phone number: 1800 802 402 \* Emergency telephone number: CHEMTREC®: +(61)-290372994 2 Hazard(s) Identification Classification of the substance or mixture GHS05 corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS07 Acute Tox. 4 H312 Harmful in contact with skin. Flam. Lig. 4 H227 Combustible liquid. · Label elements • GHS label elements The product is classified and labelled according to the Globally Harmonised System (GHS). · Hazard pictograms GHS05 GHS07 · Signal word Danger · Hazard-determining components of labelling: 2-mercaptoethanol sodium dodecyl sulphate

• Hazard statements Combustible liquid.

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Trade name: Denaturation Solution

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Harmful in contact with skin. Causes severe skin burns and eye damage. **Precautionary statements** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations.

<sup>•</sup> Other hazards

<sup>•</sup> Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· vPvB: Not applicable.

#### **3** Composition and Information on Ingredients

· Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

#### **Dangerous components:**

60-24-2 2-mercaptoethanol

151-21-3 sodium dodecyl sulphate

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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation: 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 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: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

\* Special hazards arising from the substance or mixture No further relevant information available.

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Trade name: Denaturation Solution

Advice for firefighters

• Protective equipment: No special measures required.

#### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective gloves / eye protection / face protection.
- Environmental precautions: Do not allow product to reach sewage system or any water course. Inform respective authorities in case of seepage into water course or sewage system. Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground 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 item 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:

<sup>•</sup> Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- <sup>•</sup> 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 and personal protection

• Additional information about design of technical facilities: No further data; see item 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: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work.

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#### Trade name: Denaturation Solution

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Avoid contact with the eyes and skin.

• 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.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · Material of gloves Wear suitable gloves.
- 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

Physical and Chemical Properties		
<ul> <li>Information on basic physical and ch</li> <li>General Information</li> </ul>	nemical properties	
· Appearance: Form:	Liquid	
Colour:	Liquid Clear	
· Odour:	Unpleasant	
Odour threshold:	Not determined.	
<sup>·</sup> pH-value:	Not determined.	
<ul> <li>Change in condition</li> <li>Melting point/freezing point:</li> <li>Initial boiling point and boiling range:</li> </ul>	Undetermined. 100 °C	
<sup>·</sup> Flash point:	68 °C	
<sup>·</sup> Flammability (solid, gas):	Not applicable.	
· Decomposition temperature:	Not determined.	
· Auto-ignition temperature:	Product is not selfigniting.	
· Explosive properties:	Not determined.	
· Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
<sup>·</sup> Vapour pressure at 20 °C:	23 hPa	
· Density at 20 °C:	1.0014 g/cm <sup>3</sup>	
Relative density	Not determined.	
· Vapour density	Not determined.	
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· Evaporation rate	Not determined.	
· Solubility in / Miscibility with	1	
water:	Fully miscible.	
Partition coefficient: n-octar	ol/water: Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	91.0 %	
Solids content:	0.0 %	
• Other information	No further relevant information available.	

#### **10 Stability and Reactivity**

• Reactivity No further relevant information available.

- <sup>•</sup> 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

#### · LD/LC50 values relevant for classification:

#### 60-24-2 2-mercaptoethanol

Oral	LD50	190 mg/kg (mouse)
Dermal	LD50	112-224 mg/kg (rabbit)
	1.050/4.1	

Inhalative LC50/4 h 2.05 mg/l (rat)

## Primary irritant effect:

· Skin corrosion/irritation Irritant to skin and mucous membranes.

· Serious eye damage/irritation Irritating effect.

• Respiratory or skin sensitisation No sensitising effects known.

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:

Harmful Irritant

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Toxicity	
Aquatic to>	(icity:
60-24-2 2-m	ercaptoethanol
EC50 48 Hr	0.0004 g/L (daphnia magna)
ErC50 72 Hr	19 mg/l (Desmodesmus subspicatus (green algae))
Persistence	e and degradability No further relevant information available.
	in environmental systems:
Bioaccumu	Ilative potential No further relevant information available.
Mobility in	soil No further relevant information available.
Ecotoxical	effects:
Remark: Ha	armful to fish
Additional	ecological information:
General no	tes:
	d class 3 (German Regulation) (Self-assessment): extremely hazardous for water
	product to reach ground water, water course or sewage system, even in small quantities.
	nking water if even extremely small quantities leak into the ground.
	quatic organisms PBT and vPvB assessment
PBT: Not ap	
•	
vPvB: Not a	rse effects No further relevant information available.

## 13 Disposal considerations

<sup>·</sup> Waste treatment methods

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

· Uncleaned packaging:

- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

Not Regulated, De minimis Quantities		
UN-Number ADG, ADN, IMDG, IATA	not regulated	
	not regulated	
UN proper shipping name ADG, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
ADG, ADN, IMDG, IATA		
Class	not regulated	

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## Safety Data Sheet according to WHS Regulations

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Packing group		
ADG, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
Transport in bulk according to Annex II o	f Marpol and	
the IBC Code	Not applicable.	
UN "Model Regulation":	not regulated	

#### **15 Regulatory information**

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

• Australian Inventory of Industrial Chemicals	
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All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

60-24-2 2-mercaptoethanol

Australia: Priority Existing Chemicals

None of the ingredients is listed.

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

· Hazard pictograms



· Signal word Danger

· Hazard-determining components of labelling: 2-mercaptoethanol sodium dodecyl sulphate Hazard statements Combustible liquid. Harmful in contact with skin. Causes severe skin burns and eye damage. **Precautionary statements** If medical advice is needed, have product container or label at hand. Keep out of reach of children. Read label before use. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Take off contaminated clothing and wash it before reuse. Store locked up. 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.

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Trade name: Denaturation Solution

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

## 16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

Contact:

• **Abbreviations and acronyms:** Flam. Liq. 4: Flammable liquids – Category 4 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Eye Dam. 1: Serious eye damage/eye irritation – Category 1



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# 1 Identification

- Trade name: Detergent Solution
- Article number: WS0013
- **Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

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

Manufacturer/Supplier: Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave

Victoria 3170, Australia

- Email: pdl-msds\_author@agilent.com
- **Phone number:** 1800 802 402

\* Emergency telephone number: CHEMTREC®: +(61)-290372994

## 2 Hazard(s) Identification

· Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- · Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- Other hazards
- <sup>•</sup> Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

## **3 Composition and Information on Ingredients**

- <sup>•</sup> Chemical characterisation: Mixtures
- Description: Mixture of substances listed below with nonhazardous additions.
- · Dangerous components: Void
- Additional information: For the wording of the listed hazard phrases refer to section 16.

## 4 First Aid Measures

- <sup>•</sup> Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.

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## Safety Data Sheet according to WHS Regulations

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Trade name: Detergent Solution

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

#### **6 Accidental Release Measures**

- **Personal precautions, protective equipment and emergency procedures** Wear protective gloves / eye protection / face protection.
- Environmental precautions:
- Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.

Methods and material for containment and cleaning up:

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

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 Wear protective gloves / eye protection / face protection.
- · 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 and personal protection

• Additional information about design of technical facilities: No further data; see item 7.

<sup>·</sup> 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.

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· Additional information: The lists valid during the making were used as basis.

#### Exposure controls

- · Personal protective equipment:
- General protective and hygienic measures:

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

- Respiratory protection: Not required.
- Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · Material of gloves Wear suitable gloves.
- **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: Wear eye protection / face protection.

### **9** Physical and Chemical Properties

<ul> <li>Information on basic physical and ch</li> <li>General Information</li> </ul>	nemical properties
· Appearance:	
Form:	Liquid
Colour:	Colourless
· Odour:	Characteristic
· Odour threshold:	Not determined.
· pH-value:	Not determined.
• Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C
<sup>·</sup> Flash point:	Not applicable.
· Flammability (solid, gas):	Not applicable.
· Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
• Explosive properties:	Product does not present an explosion hazard.
· Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
<sup>·</sup> Vapour pressure at 20 °C:	23 hPa
Density at 20 °C:	1.009 g/cm <sup>3</sup>
· 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.
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#### Trade name: Detergent Solution

		(Contd. of page 3)
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Water:	85.0 %	
Solids content:	15.0 %	
• Other information	No further relevant information available.	

#### 10 Stability and Reactivity

· Reactivity No further relevant information available.

- <sup>•</sup> 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 May be harmful in contact with skin.
- Serious eye damage/irritation No irritating effect.
- · Respiratory or skin sensitisation No sensitising effects known.
- Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

## **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 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Danger to drinking water if even small quantities leak into the ground.

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Trade name: Detergent Solution

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#### <sup>•</sup> 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 Dispose of contents/container in accordance with local/regional/national/international regulations.
- <sup>•</sup> Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

#### 14 Transport information

Not Regulated, De minimis Quantities

Het Hogalatea, De minime adamatee		
<sup>·</sup> UN-Number <sup>·</sup> ADG, ADN, IMDG, IATA	not regulated	
<sup>·</sup> UN proper shipping name <sup>·</sup> ADG, ADN, IMDG, IATA	not regulated	
Transport hazard class(es)		
· ADG, ADN, IMDG, IATA · Class	not regulated	
<sup>·</sup> Packing group <sup>·</sup> ADG, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex II o the IBC Code</li> </ul>	of Marpol and Not applicable.	
· UN "Model Regulation":	not regulated	

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Australian Inventory of Industrial Chemicals

All ingredients are listed.

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· Australia: Priority Existing Chemicals

None of the ingredients is listed.

· GHS label elements Void

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<sup>-</sup> AUS —

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#### Trade name: Detergent Solution

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- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- <sup>•</sup> 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.

## 16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.



Revision Date: 25.01.2022

Issue Date: 25.01.2022

## 1 Identification • Product identifier

- Trade name: 5x Reaction buffer for GKE-5003
- Article number: WS0067
- Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- · Application of the substance / the mixture Reagents and Standards for Analytical Chemical Laboratory Use

## <sup>.</sup> Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Agilent Technologies Australia Pty Ltd 679 Springvale Road Mulgrave Victoria 3170, Australia

- Email: pdl-msds\_author@agilent.com
- Phone number: 1800 802 402

\* Emergency telephone number: CHEMTREC®: +(61)-290372994

## 2 Hazard(s) Identification

<sup>•</sup> Classification of the substance or mixture

The product is not classified, according to the Globally Harmonised System (GHS).

- <sup>.</sup> Label elements
- · GHS label elements Void
- · Hazard pictograms Void
- Signal word Void
- · Hazard statements Void
- <sup>·</sup> Other hazards
- <sup>•</sup> Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

## **3** Composition and Information on Ingredients

<sup>•</sup> Chemical characterisation: Mixtures

• **Description:** Mixture of substances listed below with nonhazardous additions.

Dangerous components:

26628-22-8 sodium azide

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:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

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0.1%

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Trade name: 5x Reaction buffer for GKE-5003

No special measures required.

- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: Call for a doctor immediately.
- <sup>•</sup> Information for doctor:
- · Most important symptoms and effects, both acute and delayed Cyanosis
- · 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** Wear protective gloves / eye protection / face protection.
- 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 item 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

Wear protective gloves / eye protection / face protection.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- · Information about fire and explosion protection: No special measures required.
- <sup>•</sup> 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.

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## Trade name: 5x Reaction buffer for GKE-5003

Initial boiling point and boiling range:

<sup>•</sup> Flash point:

Flammability (solid, gas):

• Decomposition temperature:

Auto-ignition temperature:

• Explosive properties:

Explosion limits: Lower:

Upper:

(Contd. of page 2)

#### 8 Exposure controls and personal protection Additional information about design of technical facilities: No further data; see item 7. <sup>•</sup> Control parameters Ingredients with limit values that require monitoring at the workplace: 26628-22-8 sodium azide WES Peak limitation: 0.3 mg/m<sup>3</sup>, 0.11 ppm · 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. **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. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves Wear suitable gloves. · 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: Wear eye protection / face protection. 9 Physical and Chemical Properties Information on basic physical and chemical properties General Information · Appearance: Form: Liquid Colour: Colourless · Odour: Odourless · Odour threshold: Not determined. <sup>•</sup> pH-value at 20 °C: 7.5 <sup>•</sup> Change in condition Melting point/freezing point: 0°C

100 °C

Not applicable.

Not applicable.

Not determined.

Not determined.

Not determined.

Product is not selfigniting.

Product does not present an explosion hazard.

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#### Trade name: 5x Reaction buffer for GKE-5003

		(Contd. of page
· Vapour pressure at 20 °C:	23 hPa	
<sup>·</sup> Density at 20 °C:	1 g/cm <sup>3</sup>	
· 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:	98.5 %	
Solids content:	0.2 %	
• Other information	No further relevant information available.	

## **10 Stability and Reactivity**

· Reactivity No further relevant information available.

- <sup>•</sup> 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

#### <sup>•</sup> Acute toxicity

#### · LD/LC50 values relevant for classification:

#### 26628-22-8 sodium azide

Oral LD50 27 mg/kg (rat)

Dermal LD50 20 mg/kg (rabbit)

#### Primary irritant effect:

· Skin corrosion/irritation May be harmful in contact with skin.

Serious eye damage/irritation No irritating effect.

· Respiratory or skin sensitisation No sensitising effects known.

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:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

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Trade name: 5x Reaction buffer for GKE-5003

Harmful

#### 12 Ecological Information

- <sup>·</sup> Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- <sup>•</sup> 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.
- <sup>•</sup> 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 Dispose of contents/container in accordance with local/regional/national/international regulations.
- <sup>•</sup> Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

#### 14 Transport information

Not Regulated, De minimis Quantities

<sup>·</sup> UN-Number <sup>·</sup> ADG, IMDG, IATA	not regulated	
· UN proper shipping name · ADG, IMDG, IATA	not regulated	
· Transport hazard class(es)		
· ADG, ADN, IMDG, IATA · Class	not regulated	
· Packing group · ADG, IMDG, IATA	not regulated	
Environmental hazards:	Not applicable.	
Special precautions for user	Not applicable.	
<ul> <li>Transport in bulk according to Annex II of the IBC Code</li> </ul>	Marpol and Not applicable.	
		(Contd. on page

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Trade name: 5x Reaction buffer for GKE-5003

UN "Model Regulation":

not regulated

## **15 Regulatory information**

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

- Australian Inventory of Industrial Chemicals
- All ingredients are listed.
  - Standard for the Uniform Scheduling of Medicines and Poisons
- 7558-79-4 disodium hydrogenorthophosphate

#### • Australia: Priority Existing Chemicals

None of the ingredients is listed.

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- <sup>•</sup> Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **16 Other information**

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