SAFETY DATA SHEET



StrataPrep PCR Purification Kit, Part Number 400773

SECTION 1: Identification of the substance/mixture and of the company/ undertaking

1.1 Product identifier

Product name : StrataPrep PCR Purification Kit, Part Number 400773

Part No. (Kit) : 400773

Part No. : DNA-Binding Solution 400773-13

Wash Buffer (5X) 400773-16

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

	Identified uses	
Analytical reagent. DNA-Binding Solution Wash Buffer (5X)	25 ml 50 ml	

1.3 Details of the supplier of the safety data sheet

Agilent Technologies Manufacturing GmbH & Co. KG Hewlett-Packard-Str. 8 76337 Waldbronn Germany 0800 603 1000

e-mail address of person : pdl-msds_author@agilent.com

responsible for this SDS

1.4 Emergency telephone number

Emergency telephone

number (with hours of

operation)

: CHEMTREC®: +(44)-870-8200418

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

: NA-Binding Solution **Product definition** Mixture

Wash Buffer (5X) Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

DNA-Binding Solution

ACUTE TOXICITY (oral) - Category 4 H302 H332 ACUTE TOXICITY (inhalation) - Category 4

H412 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Ingredients of unknown : DNA-Binding Solution Percentage of the mixture consisting of ingredient(s) of

unknown dermal toxicity: 1 - 10% toxicity

Percentage of the mixture consisting of ingredient(s) of

unknown inhalation toxicity: 1 - 10%

Percentage of the mixture consisting of ingredient(s) of

unknown oral toxicity: 1 - 10%

: NA-Binding Solution Percentage of the mixture consisting of ingredient(s) of Ingredients of unknown ecotoxicity

unknown hazards to the aquatic environment: 1.6%

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

Date of issue/Date of : 25/01/2018 1/14

SECTION 2: Hazards identification

2.2 Label elements

: DNA-Binding Solution **Hazard pictograms**



Warning

Signal word : DNA-Binding Solution

Wash Buffer (5X) No signal word.

: DNA-Binding Solution **Hazard statements** H302 + H332 - Harmful if swallowed or if inhaled.

H412 - Harmful to aquatic life with long lasting effects.

Wash Buffer (5X) No known significant effects or critical hazards.

Precautionary statements

Prevention : DNA-Binding Solution P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P261 - Avoid breathing vapour.

Wash Buffer (5X) Not applicable.

Response : DNA-Binding Solution P304 + P340 + P312 - IF INHALED: Remove person to

fresh air and keep comfortable for breathing. Call a POISON

CENTER or physician if you feel unwell.

Wash Buffer (5X) Not applicable.

: NA-Binding Solution Not applicable. Storage

Not applicable. Wash Buffer (5X)

Disposal : DNA-Binding Solution P501 - Dispose of contents and container in accordance

with all local, regional, national and international regulations.

Wash Buffer (5X) Not applicable.

Hazardous ingredients : DNA-Binding Solution

Supplemental label : DNA-Binding Solution

Wash Buffer (5X)

DNA-Binding Solution

- salts of thiocyanic acid

Not applicable. Wash Buffer (5X) Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market

and use of certain dangerous substances, mixtures and articles

Not applicable. Not applicable.

Special packaging requirements

Tactile warning of : DNA-Binding Solution Not applicable. Wash Buffer (5X) Not applicable. danger

2.3 Other hazards

elements

Other hazards which do not result in

classification

DNA-Binding Solution None known. Wash Buffer (5X) None known.

SECTION 3: Composition/information on ingredients

3.1 Substances Mixture Wash Buffer (5X) Mixture

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре

Date of issue/Date of : 25/01/2018 2/14

StrataPrep PCR Purification Kit, Part Number 400773

SECTION 3: Composition/information on ingredients

NA-Binding Solution				
Guanidinium thiocyanate	EC: 209-812-1 CAS: 593-84-0	≥25 - ≤50	Acute Tox. 4, H302 Acute Tox. 4, H312	[1]
	Index: 615-004-00-3		Acute Tox. 4, H332	
			Aquatic Chronic 3, H412 EUH032	
2-Amino-2-(hydroxymethyl)	EC: 214-684-5	≤3	Skin Irrit. 2, H315	[1]
propane-1,3-diol hydrochloride	CAS: 1185-53-1		Eye Irrit. 2, H319 STOT SE 3, H335	
Trometamol	EC: 201-064-4	≤3	Skin Irrit. 2, H315	[1]
	CAS: 77-86-1		Eye Irrit. 2, H319	
			STOT SE 3, H335	
			See Section 16 for the full text of the H statements declared above.	

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.

Type

- Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: DNA-Binding Solution

- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact : DNA-Binding Solution Immediately flush eyes with plenty of water, occasionally

lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes.

Get medical attention if irritation occurs.

Wash Buffer (5X) 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.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are

still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-tomouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison

center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

Wash Buffer (5X) Remove victim to fresh air and keep at rest in a position

comfortable for breathing. Get medical attention if

symptoms occur.

Date of issue/Date of : 25/01/2018 3/14

revision

Inhalation

SECTION 4: First aid measures

Skin contact : DNA-Binding Solution Flush contaminated skin with plenty of water. Remove

contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes

thoroughly before reuse.

Flush contaminated skin with plenty of water. Remove Wash Buffer (5X)

contaminated clothing and shoes. Get medical attention if

symptoms occur.

Ingestion : DNA-Binding Solution Wash out mouth with water. Remove dentures if any.

> 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. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt

or waistband.

Wash Buffer (5X) 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.

Protection of first-aiders : DNA-Binding Solution No action shall be taken involving any personal risk or

without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous

to the person providing aid to give mouth-to-mouth

resuscitation.

Wash Buffer (5X) No action shall be taken involving any personal risk or

without suitable training.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact : DNA-Binding Solution No known significant effects or critical hazards.

> Wash Buffer (5X) No known significant effects or critical hazards.

Inhalation : DNA-Binding Solution Harmful if inhaled.

> Wash Buffer (5X) No known significant effects or critical hazards.

Skin contact : DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

: DNA-Binding Solution Harmful if swallowed. Ingestion No known significant effects or critical hazards. Wash Buffer (5X)

Over-exposure signs/symptoms

Eye contact : DNA-Binding Solution No specific data.

Wash Buffer (5X) No specific data. : DNA-Binding Solution No specific data.

Inhalation Wash Buffer (5X) No specific data.

Skin contact : DNA-Binding Solution No specific data. Wash Buffer (5X) No specific data.

Ingestion : DNA-Binding Solution No specific data. Wash Buffer (5X) No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Date of issue/Date of : 25/01/2018

StrataPrep PCR Purification Kit, Part Number 400773

SECTION 4: First aid measures

Notes to physician : DNA-Binding Solution 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. Wash Buffer (5X)

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : DNA-Binding Solution No specific treatment.

Wash Buffer (5X) No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: DNA-Binding Solution Wash Buffer (5X)

Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.

Unsuitable extinguishing media

: DNA-Binding Solution Wash Buffer (5X)

None known. None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture : DNA-Binding Solution

In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being

discharged to any waterway, sewer or drain.

Wash Buffer (5X) In a fire or if heated, a pressure increase will occur and the

container may burst.

Hazardous combustion

products

: DNA-Binding Solution

Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds

No specific data. Wash Buffer (5X)

5.3 Advice for firefighters

Special precautions for

fire-fighters

: DNA-Binding Solution

Wash Buffer (5X)

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. 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.

Special protective equipment for fire-

fighters

: DNA-Binding Solution

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Wash Buffer (5X)

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a

basic level of protection for chemical incidents.

Date of issue/Date of : 25/01/2018 5/14

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

: DNA-Binding Solution

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 spilt material. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put

on appropriate personal protective equipment.

Wash Buffer (5X) 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 spilt material. Put on

appropriate personal protective equipment.

For emergency responders

: DNA-Binding Solution

If specialised 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".

Wash Buffer (5X) If specialised 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".

6.2 Environmental precautions

: DNA-Binding Solution

Avoid dispersal of spilt 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). Water polluting material. May be harmful to the environment if released in large

quantities.

Wash Buffer (5X) Avoid dispersal of spilt 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).

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : DNA-Binding Solution

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

Wash Buffer (5X) Stop leak if without risk. Move containers from spill area.

Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose

of via a licensed waste disposal contractor.

6.4 Reference to other

sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures : DNA-Binding Solution

Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in

Date of issue/Date of : 25/01/2018 **6/14**

SECTION 7: Handling and storage

use. Empty containers retain product residue and can be

hazardous. Do not reuse container.

Wash Buffer (5X) Put on appropriate personal protective equipment (see

Section 8).

Advice on general occupational hygiene : DNA-Binding Solution

Wash Buffer (5X)

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. 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.

7.2 Conditions for safe storage, including any incompatibilities

: DNA-Binding Solution Store in accordance with local regulations. Store in original **Storage**

> 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 unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

Wash Buffer (5X) 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 unlabelled containers. Use

appropriate containment to avoid environmental

contamination. See Section 10 for incompatible materials

before handling or use.

7.3 Specific end use(s)

Recommendations : DNA-Binding Solution Industrial applications, Professional applications.

Wash Buffer (5X) Industrial applications, Professional applications.

Industrial sector specific : DNA-Binding Solution Not applicable. solutions Wash Buffer (5X) Not applicable.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

Recommended monitoring procedures If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of

Date of issue/Date of : 25/01/2018

SECTION 8: Exposure controls/personal protection

exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls

: Good general ventilation should be sufficient to control worker exposure to airborne

contaminants.

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 sideshields.

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

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state : DNA-Binding Solution Liquid. Wash Buffer (5X) Liquid.

Colour **DNA-Binding Solution** Not available. Wash Buffer (5X) Not available.

Odour : DNA-Binding Solution Not available. Wash Buffer (5X) Not available.

: DNA-Binding Solution **Odour threshold** Not available. Wash Buffer (5X) Not available.

Date of issue/Date of : 25/01/2018 8/14

SECTION 9: Physical and chemical properties

pН : DNA-Binding Solution Wash Buffer (5X) 6.4

Melting point/freezing point : DNA-Binding Solution Not available.

> Wash Buffer (5X) 0°C

Initial boiling point and : DNA-Binding Solution Not available.

100°C Wash Buffer (5X) boiling range

Flash point : DNA-Binding Solution Not available. Not available. Wash Buffer (5X)

Evaporation rate DNA-Binding Solution Not available.

Not available. Wash Buffer (5X)

Flammability (solid, gas) : DNA-Binding Solution Not applicable. Wash Buffer (5X) Not applicable.

Upper/lower flammability or : DNA-Binding Solution Not available.

Not available. Wash Buffer (5X) explosive limits : DNA-Binding Solution Not available. Vapour pressure

Not available. Wash Buffer (5X) **DNA-Binding Solution** Not available. Vapour density

Wash Buffer (5X) Not available. **Relative density** : DNA-Binding Solution Not available. Wash Buffer (5X) Not available.

Solubility(ies) : DNA-Binding Solution Soluble in the following materials: cold water and hot

water

Wash Buffer (5X) Easily soluble in the following materials: cold water and

hot water.

Not available.

Partition coefficient: n-: DNA-Binding Solution

Wash Buffer (5X) Not available. octanol/water

DNA-Binding Solution Not available. **Auto-ignition temperature** Not available. Wash Buffer (5X) Not available. **Decomposition temperature** : DNA-Binding Solution

Not available. Wash Buffer (5X) **Viscosity DNA-Binding Solution** Not available.

Wash Buffer (5X) Not available. : DNA-Binding Solution Not available. **Explosive properties** Not available. Wash Buffer (5X)

Oxidising properties DNA-Binding Solution Not available. Wash Buffer (5X) Not available.

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity : DNA-Binding Solution No specific test data related to reactivity available for this

product or its ingredients.

No specific test data related to reactivity available for this Wash Buffer (5X)

product or its ingredients.

10.2 Chemical stability DNA-Binding Solution The product is stable.

Wash Buffer (5X) The product is stable.

10.3 Possibility of : DNA-Binding Solution hazardous reactions

Under normal conditions of storage and use, hazardous

reactions will not occur.

Wash Buffer (5X) Under normal conditions of storage and use, hazardous

reactions will not occur.

Date of issue/Date of : 25/01/2018 9/14

StrataPrep PCR Purification Kit, Part Number 400773

SECTION 10: Stability and reactivity

10.4 Conditions to avoid

: DNA-Binding Solution Wash Buffer (5X)

No specific data. No specific data.

10.5 Incompatible

materials

: DNA-Binding Solution Wash Buffer (5X)

May react or be incompatible with oxidising materials. May react or be incompatible with oxidising materials.

10.6 Hazardous decomposition products : DNA-Binding Solution

Wash Buffer (5X)

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

Under normal conditions of storage and use, hazardous

decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
DNA-Binding Solution Trometamol	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	5000 mg/kg	-

Acute toxicity estimates

Route	ATE value		
DNA-Binding Solution			
Oral	1063.8 mg/kg		
Dermal	2340.4 mg/kg		
Inhalation (dusts and mists)	3.191 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
DNA-Binding Solution Trometamol	Skin - Moderate irritant Skin - Severe irritant	Rabbit Rabbit	-	25 Percent 500 milligrams	-

Sensitiser

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
DNA-Binding Solution 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride	Category 3	Not applicable.	Respiratory tract irritation
Trometamol	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely : DNA-Binding Solution routes of exposure Wash Buffer (5X)

Routes of entry anticipated: Oral, Dermal, Inhalation.

Not available.

Potential acute health effects

Inhalation : DNA-Binding Solution

Harmful if inhaled. Wash Buffer (5X) No known significant effects or critical hazards.

Date of issue/Date of : 25/01/2018 10/14

SECTION 11: Toxicological information

Ingestion: DNA-Binding Solution Harmful if swallowed.

Wash Buffer (5X)

No known significant effects or critical hazards.

Skin contact : DNA-Binding Solution No known significant effects or critical hazards. Wash Buffer (5X) No known significant effects or critical hazards.

Eye contact : DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Inhalation : DNA-Binding Solution No specific data.

Wash Buffer (5X)
DNA-Binding Solution
Wash Buffer (5X)
No specific data.
No specific data.

Skin contact : DNA-Binding Solution No specific data.

Wash Buffer (5X) No specific data.

Eye contact : DNA-Binding Solution No specific data.
Wash Buffer (5X) No specific data.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Short term exposure

Potential immediate

effects

Ingestion

: Not available.

Potential delayed

effects

: Not available.

Long term exposure

Potential immediate : Not

effects

Not available.

Potential delayed

effects

: Not available.

Potential chronic health effects

General : DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

Carcinogenicity : DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

Mutagenicity: DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

Teratogenicity : DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

Developmental effects: DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

Fertility effects: DNA-Binding Solution No known significant effects or critical hazards.

Wash Buffer (5X) No known significant effects or critical hazards.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
	Acute EC50 >980 mg/l Fresh water	Daphnia	48 hours
	Acute NOEC 520 mg/l Fresh water	Daphnia	48 hours

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulative potential

Date of issue/Date of : 25/01/2018 11/14
revision

StrataPrep PCR Purification Kit, Part Number 400773

SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential
DNA-Binding Solution			
Trometamol	-1.56	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

PBT : Not applicable. **vPvB** Not applicable.

12.6 Other adverse effects: No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Methods of disposal : The generation of waste should be avoided or minimised 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.

Within the present knowledge of the supplier, this product is not regarded as hazardous **Hazardous waste**

waste, as defined by EU Directive 2008/98/EC.

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste

packaging should be recycled. Incineration or landfill should only be considered when

recycling is not feasible.

Special precautions 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 spilt material and runoff

and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID / IMDG / IATA Not regulated.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code : Not available.

Date of issue/Date of : 25/01/2018 12/14 revision

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions : on the manufacture,

: DNA-Binding Solution Wash Buffer (5X)

Not applicable. Not applicable.

placing on the market and use of certain dangerous substances, mixtures and articles Other EU regulations

Ozone depleting substances (1005/2009/EU)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Seveso Directive

This product is not controlled under the Seveso Directive.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

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

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

Europe : All components are listed or exempted.

Japan : Japan inventory (ENCS): All components are listed or exempted.

Japan inventory (ISHL): All components are listed or exempted.

Malaysia : Not determined.

New Zealand : All components are listed or exempted.
Philippines : All components are listed or exempted.

Republic of Korea : Not determined.

Taiwan : All components are listed or exempted.

Thailand : Not determined.

Turkey : Not determined.

United States : All components are listed or exempted.

Date of issue/Date of : 25/01/2018 13/14

StrataPrep PCR Purification Kit, Part Number 400773

SECTION 15: Regulatory information

Viet Nam : Not determined.

15.2 Chemical safety assessment

: This product contains substances for which Chemical Safety Assessments might

still be required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/2008]

DNEL = Derived No Effect Level

EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification	
DNA-Binding Solution		
Acute Tox. 4, H302	Calculation method	
Acute Tox. 4, H332	Calculation method	
Aquatic Chronic 3, H412	Calculation method	

Full text of abbreviated H statements

DNA-Binding Solution	
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

DNA-Binding Solution Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Chronic 3, H412 EUH032

EUH032 Eye Irrit. 2, H319

Skin Irrit. 2, H315 STOT SE 3, H335 ACUTE TOXICITY (oral) - Category 4
ACUTE TOXICITY (dermal) - Category 4
ACUTE TOXICITY (inhalation) - Category 4

LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3

Contact with acids liberates very toxic gas.

SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2

SKIN CORROSION/IRRITATION - Category 2

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE

(Respiratory tract irritation) - Category 3

Date of issue/ Date of

revision

: 25/01/2018

Date of previous issue : 15/07/2016.

Version : 2

Notice to reader

Disclaimer: 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.

Date of issue/Date of : 25/01/2018 14/14