SAFETY DATA SHEET



StrataPrep PCR Purification Kit, Part Number 400773

Section 1. Identification

1.1 Product identifier

Product name : StrataPrep PCR Purification Kit, Part Number 400773

Part no. (chemical kit) : 400773

Part no. : NA-Binding Solution 400771-13

Wash Buffer (5X) 400771-16

Validation date : 11/6/2023

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

Identified uses : Analytical reagent.

✓NA-Binding Solution 5 mlWash Buffer (5X) 10 ml

1.3 Details of the supplier of the safety data sheet

Supplier/Manufacturer: Agilent Technologies, Inc.

5301 Stevens Creek Blvd Santa Clara, CA 95051, USA

800-227-9770

1.4 Emergency telephone number

In case of emergency: CHEMTREC®: 1-800-424-9300

Section 2. Hazards identification

2.1 Classification of the substance or mixture

OSHA/HCS status : NA-Binding Solution This material is considered hazardous by the OSHA

Hazard Communication Standard (29 CFR 1910.1200). While this material is not considered hazardous by the

OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees

and other users of this product.

Classification of the substance or mixture

DNA-Binding Solution

H302 ACUTE TOXICITY (oral) - Category 4
H314 SKIN CORROSION - Category 1C
H318 SERIOUS EYE DAMAGE - Category 1

H412 AQUATIC HAZARD (LONG-TERM) - Category 3

Wash Buffer (5X)

2.2 GHS label elements

Hazard pictograms : ▶NA-Binding Solution



Danger



Signal word : NA-Binding Solution

Wash Buffer (5X) No signal word.

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Section 2. Hazards identification

Hazard statements : DNA-Binding Solution H302 - Harmful if swallowed.

H314 - Causes severe skin burns and eye damage.

H412 - Harmful to aquatic life with long lasting

effects.

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

Precautionary statements

: DNA-Binding Solution Prevention P280 - Wear protective gloves, protective clothing

and eye or face protection.

P273 - Avoid release to the environment.

P270 - Do not eat, drink or smoke when using this

product.

P264 - Wash thoroughly after handling.

Wash Buffer (5X) Not applicable.

Response : DNA-Binding Solution P304 + P310 - IF INHALED: Immediately call a

POISON CENTER or doctor.

P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON

CENTER or doctor.

P363 - Wash contaminated clothing before reuse. P305 + P351 + P338, P310 - 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 or

doctor.

Wash Buffer (5X) Not applicable. : NA-Binding Solution Not applicable. Wash Buffer (5X) Not applicable.

Disposal ► NA-Binding Solution P501 - Dispose of contents and container in

accordance with all local, regional, national and

international regulations.

Wash Buffer (5X) Not applicable.

Supplemental label

elements

Storage

: DNA-Binding Solution

Keep container tightly closed. Do not breathe

vapor or spray. Do not taste or swallow. Use only with adequate ventilation. Wash thoroughly after

handling.

None known. Wash Buffer (5X)

2.3 Other hazards

Hazards not otherwise

classified

: DNA-Binding Solution

Causes respiratory tract burns. Causes digestive

tract burns.

Wash Buffer (5X) None known.

Section 3. Composition/information on ingredients

Substance/mixture : DNA-Binding Solution Mixture Wash Buffer (5X) Mixture

Ingredient name	%	CAS number
MA-Binding Solution		
Guanidinium thiocyanate	≥25 - ≤50	593-84-0

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

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Section 3. Composition/information on ingredients

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

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

Section 4. First aid measures

4.1 Description of necessary first aid measures

: DNA-Binding Solution Eye contact

> lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

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.

Inhalation : DNA-Binding Solution Get medical attention immediately. Call a poison

center or physician. 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

Get medical attention immediately. Call a poison

center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and

give mouth-to-mouth resuscitation. 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.

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

attention if symptoms occur.

Skin contact : DNA-Binding Solution Get medical attention immediately. Call a poison

Wash Buffer (5X)

Wash Buffer (5X)

: DNA-Binding Solution

center or physician. Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear

gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean

shoes thoroughly before reuse.

Flush contaminated skin with plenty of water.

Remove contaminated clothing and shoes. Get

medical attention if symptoms occur.

Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. 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

Ingestion

dangerous. Do not induce vomiting unless directed

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Section 4. First aid measures

to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a 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

Wash Buffer (5X)

tight clothing such as a collar, tie, belt or waistband. Wash out mouth with water. 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.

4.2 Most important symptoms/effects, acute and delayed

Potential acute health effects

: DNA-Binding Solution Eye contact Causes serious eye damage.

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

: NA-Binding Solution Inhalation Corrosive to the respiratory system.

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

: DNA-Binding Solution Skin contact Causes severe burns.

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

Ingestion May cause burns to mouth, throat and stomach. Harmful if swallowed. Corrosive to the digestive

tract. Causes burns.

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

Over-exposure signs/symptoms

: DNA-Binding Solution Eye contact Adverse symptoms may include the following:

> pain watering redness

Wash Buffer (5X) No specific data.

Inhalation : DNA-Binding Solution Adverse symptoms may include the following:

respiratory tract irritation

coughing

Wash Buffer (5X) No specific data.

: DNA-Binding Solution Skin contact Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur No specific data.

Ingestion : DNA-Binding Solution Adverse symptoms may include the following:

stomach pains

Wash Buffer (5X) No specific data.

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

Wash Buffer (5X)

: DNA-Binding Solution In case of inhalation of decomposition products in a Notes to physician

fire, symptoms may be delayed. The exposed person may need to be kept under medical

surveillance for 48 hours.

Treat symptomatically. Contact poison treatment Wash Buffer (5X)

specialist immediately if large quantities have been

ingested or inhaled.

: DNA-Binding Solution No specific treatment. **Specific treatments**

Wash Buffer (5X) No specific treatment.

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Section 4. First aid measures

Protection of first-aiders : DNA-Binding Solution

A-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 contaminated clothing thoroughly with water before removing it, or wear gloves.

Wash Buffer (5X)

No action shall be taken involving any personal risk

or without suitable training.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: DNA-Binding Solution

Use an extinguishing agent suitable for the

surrounding fire.

Wash Buffer (5X)

Use an extinguishing agent suitable for the

surrounding fire.

Unsuitable extinguishing

media

: NA-Binding Solution Wash Buffer (5X)

None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards arising from the chemical

: 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 thermal

decomposition products

: DNA-Binding Solution

Decomposition products may include the following

materials: carbon dioxide

carbon monoxide nitrogen oxides sulfur oxides

halogenated compounds

Wash Buffer (5X) No specific data.

5.3 Advice for firefighters

Special protective actions

for fire-fighters

: DNA-Binding Solution

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.

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.

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.

Wash Buffer (5X) Fire-fighters should wear appropriate protective

equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive

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Section 5. Fire-fighting measures

pressure mode.

Section 6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency

: DNA-Binding Solution

personnel

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

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

For emergency responders : MA-Binding Solution

Wash Buffer (5X)

Wash Buffer (5X)

6.2 Environmental precautions

: DNA-Binding Solution

Wash Buffer (5X)

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

6.3 Methods and materials for containment and cleaning up

: DNA-Binding Solution Methods for cleaning up

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.

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.

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Section 7. Handling and storage

7.1 Precautions for safe handling

Protective measures

: DNA-Binding Solution

Wash Buffer (5X)

Advice on general occupational hygiene

: DNA-Binding Solution

Wash Buffer (5X)

7.2 Conditions for safe storage, including any incompatibilities

: DNA-Binding Solution

Wash Buffer (5X)

Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. 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 use. Empty containers retain product residue and can be hazardous. Do not reuse container.

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

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.

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. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

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

7.3 Specific end use(s)

Recommendations

: NA-Binding Solution Wash Buffer (5X)

Industrial applications, Professional applications. Industrial applications, Professional applications.

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Section 7. Handling and storage

Industrial sector specific solutions

: NA-Binding Solution Wash Buffer (5X)

Not available. Not available.

Section 8. Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
DNA-Binding Solution	
Guanidinium thiocyanate	None.

Biological exposure indices

No exposure indices known.

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Environmental exposure controls

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

Individual protection measures

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period.

Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/ or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

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.

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Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

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

: DNA-Binding Solution Not available. Color

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

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

pН : DNA-Binding Solution 6.4

Wash Buffer (5X) 6.4 : DNA-Binding Solution **Melting point/freezing point** Not available.

Wash Buffer (5X) 0°C (32°F) : DNA-Binding Solution **Boiling point, initial boiling** Not available. point, and boiling range Wash Buffer (5X) 100°C (212°F)

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

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

: DNA-Binding Solution **Flammability** Not applicable. Wash Buffer (5X) Not applicable. Lower and upper explosion : NA-Binding Solution Not available. Wash Buffer (5X) Not available.

limit/flammability limit Vapor pressure

:		Vapor Pressure at 20°C			Vapor pressure at 50°0		
	Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
	I ■ NA-Binding Solution						
	water	17.5	2.3	-	92.258	12.3	-
	Wash Buffer (5X)						
	water	17.5	2.3	_	92.258	12.3	-

: DNA-Binding Solution Not available. Relative vapor density

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

Solubility(ies) Media Result

NA-Binding Solution Soluble water Wash Buffer (5X) water Soluble

Partition coefficient: noctanol/water

Auto-ignition temperature

Decomposition temperature

DNA-Binding Solution Not applicable. Wash Buffer (5X) Not applicable.

: Not available.

NA-Binding Solution Not available. Wash Buffer (5X) Not available.

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Section 9. Physical and chemical properties and safety characteristics

Viscosity : Not available. Wash Buffer (5X) Not available.

Particle characteristics

hazardous reactions

Median particle size : ▶NA-Binding Solution Not applicable.

Wash Buffer (5X) Not applicable.

Section 10. Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available

for this product or its ingredients.

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

for this 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 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.

10.4 Conditions to avoid : No specific data.

Wash Buffer (5X) No specific data.

10.5 Incompatible materials: NA-Binding Solution May react or be incompatible with oxidizing

materials.

Wash Buffer (5X) May react or be incompatible with oxidizing

materials.

10.6 Hazardous : DNA-Binding Solution Under normal conditions of storage and use,

hazardous decomposition products should not be

produced.

Wash Buffer (5X) 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

decomposition products

Product/ingredient name	Result	Species	Dose	Exposure
NA-Binding Solution Guanidinium thiocyanate	LC50 Inhalation Dusts and mists LD50 Oral		3.181 mg/l 593 mg/kg	4 hours

<u>Irritation/Corrosion</u>

Not available.

Sensitization

Not available.

Mutagenicity

Conclusion/Summary: Not available.

<u>Carcinogenicity</u>

Conclusion/Summary : Not available.

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Section 11. Toxicological information

Reproductive toxicity

Conclusion/Summary: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

routes of exposure

: ☑NA-Binding Solution

Wash Buffer (5X)

Routes of entry anticipated: Oral, Dermal,

Inhalation, Eyes. Not available.

Potential acute health effects

Eye contact : NA-Binding Solution Causes serious eye damage.

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

Inhalation : DNA-Binding Solution Corrosive to the respiratory system.

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

Skin contact : DNA-Binding Solution Causes severe burns.

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

Ingestion : DNA-Binding Solution May cause burns to mouth, throat and stomach.

Harmful if swallowed. Corrosive to the digestive

tract. Causes burns.

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

Symptoms related to the physical, chemical and toxicological characteristics

Wash Buffer (5X)

Wash Buffer (5X)

Eye contact : DNA-Binding Solution Adverse symptoms may include the following:

pain watering

redness

Inhalation : DNA-Binding Solution Adverse symptoms may include the following:

respiratory tract irritation

coughing

Wash Buffer (5X) No specific data.

Skin contact : NA-Binding Solution Adverse symptoms may include the following:

pain or irritation

No specific data.

redness

blistering may occur No specific data.

Ingestion : DNA-Binding Solution Adverse symptoms may include the following:

stomach pains

Wash Buffer (5X) No specific data.

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

Short term exposure

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Long term exposure

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Section 11. Toxicological information

Potential immediate : Not available.

effects

Potential delayed effects : Not available.

Potential chronic health effects

General : MA-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.

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

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

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

wash Buller (5X) No known significant effects of children hazards

: No known significant effects or critical hazards.

Wash Buffer (5X)

No known significant effects or critical hazards.

Numerical measures of toxicity

Acute toxicity estimates

Reproductive toxicity

Product/ingredient name	(3	Dermal (mg/kg)	Inhalation (gases) (ppm)	(vapors)	Inhalation (dusts and mists) (mg/ I)
DNA-Binding Solution					
DNA-Binding Solution	1253.7	2325.6	N/A	N/A	6.7
Guanidinium thiocyanate	593	1100	N/A	N/A	3.181

Section 12. Ecological information

12.1 Toxicity

Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
NA-Binding Solution Guanidinium thiocyanate	OECD 302B Inherent Biodegradability: Zahn-Wellens/ EMPA Test	46 % - Inherent - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
NA-Binding Solution Guanidinium thiocyanate	-	-	Inherent

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
D NA-Binding Solution			
Guanidinium thiocyanate	<-1.7	-	Low

12.4 Mobility in soil

Soil/water partition : Not available. coefficient (Koc)

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Section 12. Ecological information

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

Section 13. Disposal considerations

13.1 Waste treatment methods

Disposal methods

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

Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more stringent than regional or national requirements.

The information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	IMDG	IATA
UN number	№ N3316	☑ N3316	☑ N3316	☑ N3316	☑ N3316
UN proper shipping name	Chemical kit	CHEMICAL KIT	EQUIPO QUIMICO	CHEMICAL KIT	Chemical kit
Transport hazard class(es)		9			
Packing group	W	₩	₩	₩ .	₩
Environmental hazards	No.	No.	No.	No.	No.

Additional information

DOT Classification

: <u>Limited quantity</u> Yes.

<u>Packaging instruction</u> Exceptions: 161. Non-bulk: 161. Bulk: None. <u>Quantity limitation</u> Passenger aircraft/rail: 10 kg. Cargo aircraft: 10 kg. <u>Special provisions</u> 15

TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.43-2.45 (Class 9).

Passenger Carrying Road or Rail Index 10

Special provisions 65, 141

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Section 14. Transport information

Mexico Classification : Special provisions 251, 340

: Emergency schedules F-A, _S-P_ **IMDG**

Special provisions 251, 340

IATA : Quantity limitation Passenger and Cargo Aircraft: 10 kg. Packaging instructions: 960.

Cargo Aircraft Only: 10 kg. Packaging instructions: 960. Limited Quantities - Passenger

Aircraft: 1 kg. Packaging instructions: Y960.

Special provisions A44, A163

Special precautions for user : 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.

Transport in bulk according : Not available.

to IMO instruments

Section 15. Regulatory information

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

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

Clean Air Act Section 112

(b) Hazardous Air

Pollutants (HAPs)

Clean Air Act Section 602

Class I Substances

Clean Air Act Section 602

Class II Substances

: Not listed

DEA List I Chemicals

(Precursor Chemicals)

DEA List II Chemicals

(Essential Chemicals)

: Not listed

: Not listed

: Not listed

: Not listed

SARA 302/304

Composition/information on ingredients

No products were found.

SARA 304 RQ : Not applicable.

SARA 311/312

 DNA-Binding Solution ACUTE TOXICITY (oral) - Category 4 Classification

SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract

Wash Buffer (5X) Not applicable.

Composition/information on ingredients

Name	%	Classification
INA-Binding Solution Guanidinium thiocyanate		ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (dermal) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION - Category 1C SERIOUS EYE DAMAGE - Category 1 HNOC - Corrosive to digestive tract HNOC - Corrosive to respiratory tract

State regulations

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Section 15. Regulatory information

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

California Prop. 65

This product does not require a Safe Harbor warning under California Prop. 65.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

Inventory list

Australia : All components are listed or exempted.

Canada : All components are listed or exempted.

China : All components are listed or exempted.

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

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

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 active or exempted.Viet Nam: All components are listed or exempted.

Section 16. Other information

Procedure used to derive the classification

Classification	Justification
D NA-Binding Solution	
ACUTE TOXICITY (oral) - Category 4	Calculation method
SKIN CORROSION - Category 1C	Calculation method
SERIOUS EYE DAMAGE - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

History

Date of issue/Date of : 11/06/2023

revision

Date of previous issue : 06/01/2020

Version : 6

Date of issue: 11/06/2023 **15/16**

Section 16. Other information

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

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

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

N/A = Not available UN = United Nations

▼ Indicates information that has changed from previously issued version.

Notice to reader

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