

# SAFETY DATA SHEET

## Multi Aff Rem Column Reagent Kit, Part Number 5185-5986

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

#### 1.1 Product identifier

**Product name** : Multi Aff Rem Column Reagent Kit, Part Number 5185-5986  
**Part No. (Kit)** : 5185-5986  
**Part No.** : Buffer A Equil Load Wash 5185-5987  
 Buffer B - Elution 5185-5988

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

Identified uses	
Analytical chemistry.	
Buffer A Equil Load Wash	1000 ml
Buffer B - Elution	1000 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 responsible for this SDS** : pdl-msds\_author@agilent.com

#### 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

**Product definition** : Buffer A Equil Load Wash Mixture  
 Buffer B - Elution Mixture

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

Not classified.

**Ingredients of unknown ecotoxicity** : Buffer A Equil Load Wash Not applicable.  
 Buffer B - Elution Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.6%

#### Classification according to Directive 1999/45/EC [DPD]

Buffer A Equil Load Wash The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.  
 Buffer B - Elution The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Buffer A Equil Load Wash Not classified.  
 Buffer B - Elution Not classified.

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

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

**Date of issue/Date of revision** : 29/10/2015

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## SECTION 2: Hazards identification

### 2.2 Label elements

<b>Signal word</b>	: Buffer A Equil Load Wash Buffer B - Elution	No signal word. No signal word.
<b>Hazard statements</b>	: Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b><u>Precautionary statements</u></b>		
<b>Prevention</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not applicable. Not applicable.
<b>Response</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not applicable. Not applicable.
<b>Storage</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not applicable. Not applicable.
<b>Disposal</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not applicable. Not applicable.
<b>Hazardous ingredients</b>	: No hazardous ingredient	
<b>Supplemental label elements</b>	: Buffer A Equil Load Wash Buffer B - Elution	Safety data sheet available on request. Safety data sheet available on request.
<b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b>	: Not applicable.	
<b><u>Special packaging requirements</u></b>		
<b>Tactile warning of danger</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not applicable. Not applicable.

### 2.3 Other hazards

<b>Other hazards which do not result in classification</b>	: Buffer A Equil Load Wash Buffer B - Elution	None known. None known.
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## SECTION 3: Composition/information on ingredients

<b>3.2 Mixtures</b>	: Buffer A Equil Load Wash Buffer B - Elution	Mixture Mixture
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Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Buffer A Equil Load Wash Sodium chloride	EC: 231-598-3 CAS: 7647-14-5	≥1 - <3	Xi; R36  See Section 16 for the full text of the R-phrases declared above.	Eye Irrit. 2, H319  See Section 16 for the full text of the H statements declared above.	[1]

**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 as hazardous to health or the environment and hence require reporting in this section.

Type

[1] 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

[5] Substance of equivalent concern

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

**SECTION 4: First aid measures****4.1 Description of first aid measures**

<b>Eye contact</b>	: Buffer A Equil Load Wash	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.
	Buffer B - Elution	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.
<b>Inhalation</b>	: Buffer A Equil Load Wash	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.
	Buffer B - Elution	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
<b>Skin contact</b>	: Buffer A Equil Load Wash	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Buffer B - Elution	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
<b>Ingestion</b>	: Buffer A Equil Load Wash	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.
	Buffer B - Elution	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.
<b>Protection of first-aiders</b>	: Buffer A Equil Load Wash	No action shall be taken involving any personal risk or without suitable training.
	Buffer B - Elution	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

<b>Eye contact</b>	: Buffer A Equil Load Wash	No known significant effects or critical hazards.
	Buffer B - Elution	No known significant effects or critical hazards.
<b>Inhalation</b>	: Buffer A Equil Load Wash	No known significant effects or critical hazards.
	Buffer B - Elution	No known significant effects or critical hazards.

**SECTION 4: First aid measures**

<b>Skin contact</b>	: Buffer A Equil Load Wash	No known significant effects or critical hazards.
	Buffer B - Elution	No known significant effects or critical hazards.
<b>Ingestion</b>	: Buffer A Equil Load Wash	No known significant effects or critical hazards.
	Buffer B - Elution	No known significant effects or critical hazards.

**Over-exposure signs/symptoms**

<b>Eye contact</b>	: Buffer A Equil Load Wash	No specific data.
	Buffer B - Elution	No specific data.
<b>Inhalation</b>	: Buffer A Equil Load Wash	No specific data.
	Buffer B - Elution	No specific data.
<b>Skin contact</b>	: Buffer A Equil Load Wash	No specific data.
	Buffer B - Elution	No specific data.
<b>Ingestion</b>	: Buffer A Equil Load Wash	No specific data.
	Buffer B - Elution	No specific data.

**4.3 Indication of any immediate medical attention and special treatment needed**

<b>Notes to physician</b>	: Buffer A Equil Load Wash Buffer B - Elution	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled. 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.
<b>Specific treatments</b>	: Buffer A Equil Load Wash Buffer B - Elution	No specific treatment. No specific treatment.

**SECTION 5: Firefighting measures****5.1 Extinguishing media**

<b>Suitable extinguishing media</b>	: Buffer A Equil Load Wash Buffer B - Elution	Use an extinguishing agent suitable for the surrounding fire. Use an extinguishing agent suitable for the surrounding fire.
<b>Unsuitable extinguishing media</b>	: Buffer A Equil Load Wash Buffer B - Elution	None known. None known.

**5.2 Special hazards arising from the substance or mixture**

<b>Hazards from the substance or mixture</b>	: Buffer A Equil Load Wash Buffer B - Elution	In a fire or if heated, a pressure increase will occur and the container may burst. In a fire or if heated, a pressure increase will occur and the container may burst.
<b>Hazardous combustion products</b>	: Buffer A Equil Load Wash  Buffer B - Elution	Decomposition products may include the following materials:  halogenated compounds metal oxide/oxides Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

**5.3 Advice for firefighters**

**SECTION 5: Firefighting measures**

<b>Special precautions for fire-fighters</b>	: Buffer A Equil Load Wash	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.
	Buffer B - Elution	
<b>Special protective equipment for fire-fighters</b>	: Buffer A Equil Load Wash	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. 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.
	Buffer B - Elution	

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

<b>For non-emergency personnel</b>	: Buffer A Equil Load Wash	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. 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.
	Buffer B - Elution	
<b>For emergency responders</b>	: Buffer A Equil Load Wash	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". 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".
	Buffer B - Elution	

**6.2 Environmental precautions**

: Buffer A Equil Load Wash	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).
Buffer B - Elution	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 material for containment and cleaning up**

<b>Methods for cleaning up</b>	: Buffer A Equil Load Wash	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.
	Buffer B - Elution	

## SECTION 6: Accidental release measures

**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

<b>Protective measures</b>	: Buffer A Equil Load Wash Buffer B - Elution	Put on appropriate personal protective equipment (see Section 8). Put on appropriate personal protective equipment (see Section 8).
<b>Advice on general occupational hygiene</b>	: Buffer A Equil Load Wash  Buffer B - Elution	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.

<b>7.2 Conditions for safe storage, including any incompatibilities</b>	: Buffer A Equil Load Wash  Buffer B - Elution	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. 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.
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### 7.3 Specific end use(s)

<b>Recommendations</b>	: Buffer A Equil Load Wash Buffer B - Elution	Industrial applications, Professional applications. Industrial applications, Professional applications.
<b>Industrial sector specific solutions</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not applicable. Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

No exposure limit value known.

## SECTION 8: Exposure controls/personal protection

**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 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 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 side-shields.

### Skin protection

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

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

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

**Respiratory protection** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

**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** :  Buffer A Equil Load      Liquid.  
Wash  
 Buffer B - Elution      Liquid. [Clear.]

**SECTION 9: Physical and chemical properties**

<b>Colour</b>	: Buffer A Equil Load Wash	Clear. Colorless aqueous solution
	Buffer B - Elution	Colourless.
<b>Odour</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Odourless.
<b>Odour threshold</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>pH</b>	: Buffer A Equil Load Wash	7.4
	Buffer B - Elution	2.25
<b>Melting point/freezing point</b>	: Buffer A Equil Load Wash	0°C
	Buffer B - Elution	Not available.
<b>Initial boiling point and boiling range</b>	: Buffer A Equil Load Wash	100°C
	Buffer B - Elution	Not available.
<b>Flash point</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Evaporation rate</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Flammability (solid, gas)</b>	: Buffer A Equil Load Wash	Not applicable.
	Buffer B - Elution	Not applicable.
<b>Upper/lower flammability or explosive limits</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Vapour pressure</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Vapour density</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Relative density</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Solubility(ies)</b>	: Buffer A Equil Load Wash	Easily soluble in the following materials: cold water and hot water.
	Buffer B - Elution	Easily soluble in the following materials: cold water and hot water.
<b>Partition coefficient: n-octanol/water</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Auto-ignition temperature</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Decomposition temperature</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Viscosity</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.
<b>Explosive properties</b>	: Buffer A Equil Load Wash	Not available.
	Buffer B - Elution	Not available.



**SECTION 9: Physical and chemical properties**

**Oxidising properties** : Buffer A Equil Load Wash Not available.  
Buffer B - Elution Not available.

**9.2 Other information**

No additional information.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity** : Buffer A Equil Load Wash No specific test data related to reactivity available for this product or its ingredients.  
Buffer B - Elution No specific test data related to reactivity available for this product or its ingredients.

**10.2 Chemical stability** : Buffer A Equil Load Wash The product is stable.  
Buffer B - Elution The product is stable.

**10.3 Possibility of hazardous reactions** : Buffer A Equil Load Wash Under normal conditions of storage and use, hazardous reactions will not occur.  
Buffer B - Elution Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4 Conditions to avoid** : Buffer A Equil Load Wash No specific data.  
Buffer B - Elution No specific data.

**10.5 Incompatible materials** : Buffer A Equil Load Wash May react or be incompatible with oxidising materials.  
Buffer B - Elution May react or be incompatible with oxidising materials.

**10.6 Hazardous decomposition products** : Buffer A Equil Load Wash Under normal conditions of storage and use, hazardous decomposition products should not be produced.  
Buffer B - Elution 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
Buffer A Equil Load Wash Sodium chloride	LC50 Inhalation Dusts and mists LD50 Oral	Rat Rat	>42 g/m <sup>3</sup> 3000 mg/kg	1 hours -

**Acute toxicity estimates**

Not available.

**Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
Buffer A Equil Load Wash Sodium chloride	Eyes - Moderate irritant	Rabbit	-	24 hours 100 milligrams	-
	Eyes - Moderate irritant	Rabbit	-	10 milligrams	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

**Sensitiser**

**Conclusion/Summary** : Not available.

**Chronic toxicity / Carcinogenicity / Mutagenicity / Teratogenicity / Reproductive toxicity**

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**SECTION 11: Toxicological information**

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** :  Buffer A Equil Load Wash  
Buffer B - Elution

Routes of entry anticipated: Oral, Dermal, Inhalation.

Routes of entry anticipated: Oral, Dermal, Inhalation.

**Potential acute health effects**

<b>Inhalation</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards.
<b>Eye contact</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards.

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

<b>Inhalation</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No specific data.
<b>Ingestion</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No specific data.
<b>Skin contact</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No specific data.
<b>Eye contact</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No specific data.

**Delayed and immediate effects and also chronic effects from short and long term exposure****Short term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.**Long term exposure****Potential immediate effects** : Not available.**Potential delayed effects** : Not available.**Potential chronic health effects**

<b>General</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards.
<b>Carcinogenicity</b>	: <input checked="" type="checkbox"/> Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards.

## SECTION 11: Toxicological information

<b>Mutagenicity</b>	: Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Teratogenicity</b>	: Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Developmental effects</b>	: Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Fertility effects</b>	: Buffer A Equil Load Wash Buffer B - Elution	No known significant effects or critical hazards. No known significant effects or critical hazards.
<b>Toxicokinetics</b>		
<b>Absorption</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not available. Not available.
<b>Distribution</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not available. Not available.
<b>Metabolism</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not available. Not available.
<b>Elimination</b>	: Buffer A Equil Load Wash Buffer B - Elution	Not available. Not available.
<b>Other information</b>	: Not available.	

## SECTION 12: Ecological information

### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Buffer A Equil Load Wash Sodium chloride	Acute EC50 2430000 µg/l Fresh water Acute EC50 28.85 mg/dm3 Fresh water  Acute EC50 519.6 mg/l Fresh water  Acute IC50 6.87 g/L Fresh water Acute LC50 1661 mg/l Fresh water Acute LC50 1000000 µg/l Fresh water Chronic LC10 781 mg/l Fresh water  Chronic NOEC 6 g/L Fresh water Chronic NOEC 0.314 g/L Fresh water Chronic NOEC 100 mg/l Fresh water	Algae - Navicula seminulum Algae - Pseudokirchneriella subcapitata Crustaceans - Cypris subglobosa Aquatic plants - Lemna minor Daphnia - Daphnia magna Fish - Morone saxatilis - Larvae Crustaceans - Hyalella azteca - Juvenile (Fledgling, Hatchling, Weanling) Aquatic plants - Lemna minor Daphnia - Daphnia pulex Fish - Gambusia holbrooki - Adult	96 hours 72 hours  48 hours  96 hours 48 hours 96 hours 3 weeks  96 hours 21 days 8 weeks

### 12.2 Persistence and degradability

**Conclusion/Summary** : Not available.

### 12.3 Bioaccumulative potential

Not available.

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

## SECTION 12: Ecological information

**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.

**Hazardous waste** : Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.

#### 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

### Regulatory information

**ADR/RID / IMDG / IATA** : Not regulated.

**14.6 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.

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** : Not available.

## 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, placing on the market and use of certain dangerous substances, mixtures and articles** : Not applicable.

#### Other EU regulations

**Date of issue/Date of revision** : 29/10/2015

## SECTION 15: Regulatory information

**Europe inventory** :  All components are listed or exempted.

### 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 Inform Consent (PIC)

Not listed.

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

Not listed.

### International lists

#### National inventory

- Australia** : All components are listed or exempted.
- Canada** : All components are listed or exempted.
- China** :  All components are listed or exempted.
- Japan** : 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** :  All components are listed or exempted.
- Taiwan** :  All components are listed or exempted.
- United States** :  All components are listed or exempted.

**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
Not classified.	

**Full text of abbreviated H statements** :  **Buffer A Equil Load Wash**  
 H319 Causes serious eye irritation.

**Full text of classifications [CLP/GHS]** :  **Buffer A Equil Load Wash**  
 Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

**SECTION 16: Other information**

<b>Full text of abbreviated R phrases</b>	: Buffer A Equil Load Wash Buffer B - Elution	R36- Irritating to eyes.  Not applicable.
<b>Full text of classifications [DSD/DPD]</b>	: Buffer A Equil Load Wash Buffer B - Elution	Xi - Irritant  Not applicable.
<b>Date of issue/ Date of revision</b>	: 29/10/2015	
<b>Date of previous issue</b>	: 05/08/2013.	
<b>Version</b>	: 3	

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