

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

**Identification of the substance or mixture**

**Product code** K0702COMPONENTA  
**Product name** Binding Buffer

**Company/undertaking identification**

**Manufacturer/Supplier**  
Thermo Fisher Scientific Baltics UAB  
V.Graiciuno 8  
LT-02241 Vilnius  
Lithuania  
Tel.: +370 5 2602131  
Fax.: +370 5 2602142

**Emergency telephone number**

For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident), call  
CHEMTREC Domestic North America: 1-800-424-9300 (24 hours)  
CHEMTREC International: 1-703-527-3887 (collect calls accepted)

**Country specific Emergency Number (if available):**

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

**SECTION 2: Hazards Identification**

**GHS - Classification**

**Signal Word**  
WARNING



**Health hazards**

Acute oral toxicity	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ systemic toxicity (single exposure)	Category 3

**Physical hazards**

Not Hazardous

### **Hazard Statements**

H302 - Harmful if swallowed  
H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H412 - Harmful to aquatic life with long lasting effects  
H402 - Harmful to aquatic life

### **Precautionary Statements**

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P304 + P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
P273 - Avoid release to the environment  
P264 - Wash hands thoroughly after handling  
P332 + P313 - If skin irritation occurs: Get medical advice/attention  
P337 + P313 - If eye irritation persists: Get medical advice/attention  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P330 - Rinse mouth  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell  
P270 - Do not eat, drink or smoke when using this product  
P271 - Use only outdoors or in a well-ventilated area  
P362 + P364 - Take off all contaminated clothing and wash it before reuse

### **Principle Routes of Exposure**

#### **Potential Health Effects**

<b>eyes</b>	Irritating to eyes.
<b>Skin</b>	Harmful in contact with skin.
<b>inhalation</b>	May be harmful by inhalation.
<b>Ingestion</b>	Harmful if swallowed.

#### **Specific effects**

<b>Carcinogenic effects</b>	None.
<b>Mutagenic effects</b>	None.
<b>Reproductive toxicity</b>	None.
<b>Sensitization</b>	None.

**Target Organ Effects**                      None under normal use conditions.

#### **HMIS**

Health	2
Flammability	0
Reactivity	0

### SECTION 3: Composition/Information on Ingredients

Component	CAS-No	EINECS-No	Weight %
Thiocyanic acid, compound with guanidine (1:1) 593-84-0 ( 30 - 60 )	593-84-0	209-812-1	30 - 60

Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product. We recommend handling all chemicals with caution.

### SECTION 4: First aid measures

<b>Skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing and wash it before reuse. Immediate medical attention is required.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Immediate medical attention is required.
<b>Ingestion</b>	Call a physician or poison control center immediately. Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice.
<b>inhalation</b>	Remove to fresh air. If not breathing, give artificial respiration. Call a physician or poison control center immediately.

#### Most important symptoms and effects, both acute and delayed

H302 - Harmful if swallowed, H315 - Causes skin irritation, H319 - Causes serious eye irritation, H335 - May cause respiratory irritation, H412 - Harmful to aquatic life with long lasting effects, H402 - Harmful to aquatic life

**Notes to Physician** Treat symptomatically.

### SECTION 5: Firefighting measures

<b>Suitable extinguishing media</b>	Water spray. Carbon dioxide (CO <sub>2</sub> ). Foam. Dry chemical.
<b>Special protective equipment for firefighters</b>	Wear self-contained breathing apparatus and protective suit.
<b>Specific hazards arising from the chemical</b>	Not known

### SECTION 6: Accidental release measures

<b>Personal precautions</b>	Ensure adequate ventilation. Avoid contact with skin, eyes or clothing. Use personal protection equipment.
<b>Methods for cleaning up</b>	Soak up with inert absorbent material.

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

See Section 12 for more information.

### SECTION 7: Handling and storage

<b>Handling</b>	Always wear recommended Personal Protective Equipment. No special handling advices are necessary.
<b>Storage</b>	Keep in a dry, cool and well-ventilated place. Keep in properly labeled containers.

### SECTION 8: Exposure controls/personal protection

#### Exposure Limits

Revision date 22-Apr-2016  
Product code K0702COMPONENTA

Page 3 / 6  
Product name Binding Buffer

Chemical Name	OSHA PEL	OSHA PEL (Ceiling)	ACGIH OEL (TWA)	ACGIH OEL (STEL)
Thiocyanic acid, compound with guanidine (1:1)	None	None	None	None

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious gloves.

**Eye protection** Goggles.

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** Prevent product from entering drains. Do not allow material to contaminate ground water system.

## SECTION 9: Physical and chemical properties

### General information

Form	Liquid	
Appearance	Colorless	
Odor	odorless	
Odor Threshold	Mixture has not been tested	
Boiling point / boiling range	°C No data available	°F No data available
Melting point / melting range	°C No data available	°F No data available
flash point	°C No data available	°F No data available
Autoignition Temperature	°C No data available	°F No data available
Evaporation rate	No data available	
Flammability (solid, gas)	No data available	
Oxidizing properties	Mixture has not been tested	
Water solubility	soluble	
Upper explosion limit	No data available	
Lower explosion limit	No data available	
Partition coefficient: n-octanol/water	No data available	
Vapor Pressure	No data available	
vapor density	No data available	
Viscosity	Mixture has not been tested	
pH value	No data available	

## SECTION 10: Stability and reactivity

**Stability** Stable under normal conditions. Contact with acids or bleach liberates toxic gases. DO NOT ADD acids or bleach to any liquid wastes containing this product.

**Materials to avoid** Strong oxidizing agents. Strong acids. Cyanide compounds. sodium hypochlorite.

**Possibility of hazardous reactions** Hazardous reaction has not been reported

**Hazardous decomposition products** Carbon oxides, Nitrogen Oxides. Sulphur oxides.

**polymerization** None under normal processing.

**Conditions to avoid** None under normal processing.

### SECTION 11: Toxicological Information

#### Acute Toxicity

Chemical Name	LD50 (oral, rat/mouse)	LD50 (dermal, rat/rabbit)	LC50 (inhalation, rat/mouse)
Thiocyanic acid, compound with guanidine (1:1)	593 mg/kg	No data available	No data available

#### Principle Routes of Exposure

##### Potential Health Effects

**eyes** Irritating to eyes.

**Skin** Harmful in contact with skin.

**inhalation** May be harmful by inhalation.

**Ingestion** Harmful if swallowed.

**Carcinogenic effects** None.

**Mutagenic effects** None.

**Reproductive toxicity** None.

**Sensitization** None.

**Target Organ Effects** None under normal use conditions

### SECTION 12: Ecological Information

**Ecotoxicity** Hazardous to the Aquatic Environment.

**Acute aquatic toxicity** Category 3.

**Chronic aquatic toxicity** Category 3.

**Mobility** No information available.

**Biodegradation** No information available.

**Bioaccumulation** No information available.

### SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

### SECTION 14: Transport Information

#### IATA

**Proper Shipping Name** No dangerous good in sense of these transport regulations

**Hazard Class** None

**Subsidiary class** None

**Packing group** None

UN-No none  
Environmental hazards None

### SECTION 15: Regulatory Information

Component	US TSCA
Thiocyanic acid, compound with guanidine (1:1) 593-84-0 ( 30 - 60 )	Listed

#### US Federal Regulations

##### **SARA 313**

This product is not regulated by SARA.

##### **Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

#### US State Regulations

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

##### **WHMIS Hazard Class**

D2B - Toxic materials



This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

### SECTION 16: Other Information

Reason for revision SDS sections updated.

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**End of Safety Data Sheet**

Revision date 22-Apr-2016  
Product code K0702COMPONENTA

Page 6 / 6  
Product name Binding Buffer

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

Identification of the substance or mixture

**Product code** K0702COMPONENTC  
**Product name** Elution Buffer

Company/undertaking identification

**Manufacturer/Supplier**

Thermo Fisher Scientific Baltics UAB  
V.Graiciuno 8  
LT-02241 Vilnius  
Lithuania  
Tel.: +370 5 2602131  
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**Country specific Emergency  
Number (if available):**

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**SECTION 2: Hazards Identification**

GHS - Classification

Signal Word

None

Health hazards

Not classified

Physical hazards

Not classified

Hazard Statements

Not Applicable

Precautionary Statements

Not Applicable

Principle Routes of Exposure

Potential Health Effects

**eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

**Specific effects**

**Carcinogenic effects** None.  
**Mutagenic effects** None.  
**Reproductive toxicity** None.  
**Sensitization** None.

**Target Organ Effects** No known effects under normal use conditions.

**HMIS**

Health	0
Flammability	0
Reactivity	0

**SECTION 3: Composition/Information on Ingredients**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**SECTION 4: First aid measures**

**Skin contact** Rinse cautiously with water for several minutes. Immediate medical attention is not required.  
**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.  
**inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.  
**Most important symptoms and effects, both acute and delayed**  
 Not Applicable  
**Notes to Physician** Treat symptomatically.

**SECTION 5: Firefighting measures**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO2). Foam. Dry chemical.  
**Special protective equipment for firefighters** Standard procedure for chemical fires.  
**Specific hazards arising from the chemical** Not known

**SECTION 6: Accidental release measures**

**Personal precautions** Always wear recommended Personal Protective Equipment. Use personal protection equipment.  
**Methods for cleaning up** Soak up with inert absorbent material.  
**Environmental precautions**



No special environmental precautions required.

See Section 12 for more information.

### SECTION 7: Handling and storage

**Handling** Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Storage** Keep in a dry, cool and well-ventilated place.

### SECTION 8: Exposure controls/personal protection

#### Exposure Limits

We are not aware of any national exposure limit.

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

#### **Personal Protective Equipment**

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious gloves.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No special environmental precautions required.

### SECTION 9: Physical and chemical properties

#### General information

<b>Form</b>	Liquid	
<b>Appearance</b>	Colorless	
<b>Odor</b>	odorless	
<b>Odor Threshold</b>	No data available	
<b>Boiling point / boiling range</b>	°C No data available	°F No data available
<b>Melting point / melting range</b>	°C No data available	°F No data available
<b>flash point</b>	°C No data available	°F No data available
<b>Autoignition Temperature</b>	°C No data available	°F No data available
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Oxidizing properties</b>	No data available	
<b>Water solubility</b>	soluble	
<b>Upper explosion limit</b>	No data available	
<b>Lower explosion limit</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>vapor density</b>	No data available	

Viscosity No data available  
pH value 8.5

### SECTION 10: Stability and reactivity

**Stability** Stable under normal conditions.  
**Materials to avoid** No dangerous reaction known under conditions of normal use.  
**Possibility of hazardous reactions** Hazardous reaction has not been reported  
**Hazardous decomposition products** None under normal use conditions.  
**polymerization** Hazardous polymerization does not occur.  
**Conditions to avoid** None under normal processing.

### SECTION 11: Toxicological Information

#### Acute Toxicity

No toxicology information is available.

#### Principle Routes of Exposure

##### Potential Health Effects

**eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.  
  
**Carcinogenic effects** None.  
**Mutagenic effects** None.  
**Reproductive toxicity** None.  
**Sensitization** None.

### SECTION 12: Ecological Information

**Ecotoxicity** Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.  
**Mobility** No information available.  
**Biodegradation** Inherently biodegradable.  
**Bioaccumulation** Material does not bioaccumulate.

### SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

### SECTION 14: Transport information

Revision date 22-Apr-2016  
Product code K0702COMPONENTC

Page 4 / 5  
Product name Elution Buffer

**IATA**

Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None
Environmental hazards	None

**SECTION 15: Regulatory Information****US Federal Regulations****SARA 313**

This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

**US State Regulations****California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**SECTION 16: Other Information**

**Reason for revision** SDS sections updated.

For Research Use Only. Not for use in diagnostic procedures.

"The above information was acquired by diligent search and/or investigation and the recommendations are based on prudent application of professional judgment. The information shall not be taken as being all inclusive and is to be used only as a guide. All materials and mixtures may present unknown hazards and should be used with caution. Since the Company cannot control the actual methods, volumes, or conditions of use, the Company shall not be held liable for any damages or losses resulting from the handling or from contact with the product as described herein. THE INFORMATION IN THIS SDS DOES NOT CONSTITUTE A WARRANTY, EXPRESSED OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE"

**End of Safety Data Sheet**

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

Identification of the substance or mixture

Product code                      K0702COMPONENTB  
Product name                      Wash Buffer

Company/undertaking identification

**Manufacturer/Supplier**

Thermo Fisher Scientific Baltics UAB  
V.Graiciuno 8  
LT-02241 Vilnius  
Lithuania  
Tel.: +370 5 2602131  
Fax.: +370 5 2602142

**Emergency telephone number**

For Chemical Emergency (Spill, Leak, Fire, Exposure or Accident), call  
CHEMTREC Domestic North America: 1-800-424-9300 (24 hours)  
CHEMTREC International: 1-703-527-3887 (collect calls accepted)

**Country specific Emergency  
Number (if available):**

**For Research Use Only. Not for use in diagnostic procedures.**

**SECTION 2: Hazards Identification**

GHS - Classification

Signal Word

None

Health hazards

Not classified

Physical hazards

Not classified

Hazard Statements

Not Applicable

Precautionary Statements

Not Applicable

Principle Routes of Exposure

Potential Health Effects

**eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.

**Specific effects**

**Carcinogenic effects** None.  
**Mutagenic effects** None.  
**Reproductive toxicity** None.  
**Sensitization** None.

**Target Organ Effects** No known effects under normal use conditions.

**HMIS**

Health	0
Flammability	0
Reactivity	0

**SECTION 3: Composition/Information on Ingredients**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**SECTION 4: First aid measures**

**Skin contact** Rinse cautiously with water for several minutes. Immediate medical attention is not required.  
**Eye contact** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.  
**Ingestion** Not expected to present a significant ingestion hazard under anticipated conditions of normal use. If you feel unwell, seek medical advice.  
**inhalation** Not expected to be an inhalation hazard under anticipated conditions of normal use of this material. Consult a physician if necessary.  
**Most important symptoms and effects, both acute and delayed**  
 Not Applicable  
**Notes to Physician** Treat symptomatically.

**SECTION 5: Firefighting measures**

**Suitable extinguishing media** Water spray. Carbon dioxide (CO2). Foam. Dry chemical.  
**Special protective equipment for firefighters** Standard procedure for chemical fires.  
**Specific hazards arising from the chemical** Not known

**SECTION 6: Accidental release measures**

**Personal precautions** Always wear recommended Personal Protective Equipment. Use personal protection equipment.  
**Methods for cleaning up** Soak up with inert absorbent material.  
**Environmental precautions**

No special environmental precautions required.

See Section 12 for more information.

## SECTION 7: Handling and storage

**Handling** Always wear recommended Personal Protective Equipment. No special handling advices are necessary.

**Storage** Keep in a dry, cool and well-ventilated place.

## SECTION 8: Exposure controls/personal protection

### Exposure Limits

We are not aware of any national exposure limit.

**Engineering measures** Ensure adequate ventilation, especially in confined areas.

### Personal Protective Equipment

Personal Protective Equipment requirements are dependent on the user institution's risk assessment and are specific to the risk assessment for each laboratory where this material may be used.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Hand protection** Impervious gloves.

**Eye protection** Wear safety glasses with side shields (or goggles).

**Skin and Body Protection** Lightweight protective clothing.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

**Environmental exposure controls** No special environmental precautions required.

## SECTION 9: Physical and chemical properties

### General information

<b>Form</b>	Liquid	
<b>Appearance</b>	Colorless	
<b>Odor</b>	odorless	
<b>Odor Threshold</b>	No data available	
<b>Boiling point / boiling range</b>	°C No data available	°F No data available
<b>Melting point / melting range</b>	°C No data available	°F No data available
<b>flash point</b>	°C No data available	°F No data available
<b>Autoignition Temperature</b>	°C No data available	°F No data available
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>	No data available	
<b>Oxidizing properties</b>	No data available	
<b>Water solubility</b>	No data available	
<b>Upper explosion limit</b>	No data available	
<b>Lower explosion limit</b>	No data available	
<b>Partition coefficient: n-octanol/water</b>	No data available	
<b>Vapor Pressure</b>	No data available	
<b>vapor density</b>	No data available	

Viscosity No data available  
pH value No data available

### SECTION 10: Stability and reactivity

**Stability** Stable under normal conditions.  
**Materials to avoid** No dangerous reaction known under conditions of normal use.  
**Possibility of hazardous reactions** Hazardous reaction has not been reported  
**Hazardous decomposition products** None under normal use conditions.  
**polymerization** Hazardous polymerization does not occur.  
**Conditions to avoid** None under normal processing.

### SECTION 11: Toxicological Information

#### Acute Toxicity

No toxicology information is available.

#### Principle Routes of Exposure

##### Potential Health Effects

**eyes** May cause eye irritation with susceptible persons.  
**Skin** May cause skin irritation in susceptible persons.  
**inhalation** May be harmful by inhalation.  
**Ingestion** May be harmful if swallowed.  
**Carcinogenic effects** None.  
**Mutagenic effects** None.  
**Reproductive toxicity** None.  
**Sensitization** None.

### SECTION 12: Ecological information

**Ecotoxicity** Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants.  
**Mobility** No information available.  
**Biodegradation** Inherently biodegradable.  
**Bioaccumulation** Material does not bioaccumulate.

### SECTION 13: Disposal considerations

Dispose of contents/containers in accordance with local regulations.

### SECTION 14: Transport Information

Revision date 22-Apr-2016  
Product code K0702COMPONENTB

Page 4 / 5  
Product name Wash Buffer

**IATA**

<b>Proper Shipping Name</b>	No dangerous good in sense of these transport regulations
<b>Hazard Class</b>	None
<b>Subsidiary class</b>	None
<b>Packing group</b>	None
<b>UN-No</b>	None
<b>Environmental hazards</b>	None

**SECTION 15: Regulatory Information**

**US Federal Regulations**

**SARA 313**

This product is not regulated by SARA.

**Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)**

This product does not contain HAPs.

**US State Regulations**

**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

**WHMIS Hazard Class**

Non-controlled

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

**SECTION 16: Other Information**

**Reason for revision** SDS sections updated.

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**End of Safety Data Sheet**