

MSDS

Column Activation and Wash Buffer (Part Number 17302, 17402) pH Binding Buffer (Part Number 17403)

Version 1.1

Date of issue: 2017-10-10

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

1.1 Product identifier

Product Name Column Activation and Wash Buffer, pH Binding Buffer

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

Identified uses: Buffer

1.3 Details of the supplier of the safety data sheet

Company: TATAA Biocenter
Odinsgatan 28
411 03 Göteborg
Sweden

Phone: +46 31 761 5700

Fax: +46 31 15 28 90

Email: info@tataa.com

1.4 Emergency telephone number

Emergency number: 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Serious eye damage Category 1

Skin corrosion Category 1A

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]

Pictogram:



Signal word: Danger

Hazard statement(s)

H314 Causes severe skin burn and eye damage.

H318 Causes serious eye damage.

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling.

2.3 Other hazards

Repeated skin exposure can produce local skin destruction or dermatitis. Repeated or prolonged contact with spray or mist may produce chronic eye irritation and severe skin irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

<i>Substance</i>	<i>Concentration</i>	<i>Classification</i>
Citric Acid EC-No.: 201-069-1 CAS-No.: 77-92-9	10 - 13 wt%	Serious eye damage/irritation (category 2) H319 Causes serious eye irritation.
Phosphoric acid EC-No.: 616-646-7 CAS-No.: 7664-38-2	5 - 7 wt%	Skin corrosion/irritation (category 1B) H314 Causes severe skin burns and eye damage Serious eye damage/irritation (category 2) H319 Causes serious eye irritation
Sodium hydroxide EC-No.: 215-185-5 CAS-No.: 1310-73-2	5 - 7 wt%	Skin corrosion/irritation (category 1A) H314 Causes severe skin burns and eye damage. Serious eye damage/irritation (category 1) H318 Causes serious eye damage.

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>General advice:</i>	No action shall be taken involving any personal risk or without suitable training.
<i>If inhaled:</i>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
<i>If on skin:</i>	Wash with soap and water. Get medical attention if symptoms occur.
<i>If in eyes:</i>	Check for and remove any contact lenses. In case of contact with eyes, rinse immediately with plenty of water. Get medical attention if symptoms occur.
<i>If swallowed:</i>	Do not induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2 and/or section 11).

4.3 Indication of any immediate medical attention and special treatment needed

No data available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Use extinguishing media suitable for surrounding fire, for example extinguishing powder, carbon dioxide or foam.

5.2 Special hazards arising from the substance or mixture

No specific hazard.

5.3 Advice for firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment.

6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

6.3 Methods and material for containment and cleaning up

Small spills: Add absorbent. Soil may be used in the absence of other suitable materials. Scoop up material and place in a sealable, liquid-proof container for disposal.

Large spills: Dike spilled material, or otherwise contain material, to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Do not ingest.

Avoid contact with eyes, skin and clothing.

Keep container closed.

Use only with adequate ventilation.

Avoid breathing vapor or mist.

Wash thoroughly after handling.

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7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed. Keep container in a cool, well-ventilated area.

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Product name	CAS-nr.	NGV	KGV
Phosphoric acid	7664-38-2	1 mg/m ³	3 mg/m ³
Sodium hydroxide	1310-73-2	1 mg/m ³	2 mg/m ³

8.2 Exposure controls

Appropriate engineering controls:

Use only with adequate ventilation. If user operations generate dust, fumes, 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.

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.

Respiratory protection:

A respirator is not needed under normal and intended conditions of product use.

Hands:

Disposable vinyl gloves are recommended.

Eye 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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance:

Liquid

b) Odour:

Not known

c) *Odour threshold:*

Not applicable

d) *pH:*

6.5

e) *Melting point/freezing point:*

0,11°C

f) *Initial boiling point and boiling range:*

102,77°C

g) *Flash point:*

Not measured

h) *Evaporation rate:*

Not measured

i) *Flammability (solid, gas):*

Not measured

j) *Upper/lower flammability or explosive limits:*

Not measured

k) *Vapour pressure:*

2,3 kPa at 20°C

l) *Vapour density:*

0,62 (Air = 1)

m) *Relative density:*

1,09 (Water = 1)

n) *Solubility(ies):*

Miscible in water.

o) *Partition coefficient: n-octanol/water:*

Not measured

p) *Auto-ignition temperature:*

Not measured

q) *Decomposition temperature:*

Not measured

r) *Viscosity:*

Not measured

s) *Explosive properties:*

Not measured

t) *Oxidising properties:*

Not measured

9.2 Other information

No other information is available.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Not measured

10.2 Chemical stability

The product is stable.

10.3 Possibility of hazardous reactions

No hazardous reactions are known.

10.4 Conditions to avoid

No conditions to avoid are known.

10.5 Incompatible materials

Reactive with oxidizing materials, organic materials and alkalis.

10.6 Hazardous decomposition products

No data available.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

a) *Acute toxicity*

- Ingestion:

Irritating to mouth, throat and stomach.

Ingredient name	CAS-no.	Test	Result	Species
Citric Acid	77-92-9	LD50 Oral	5040 mg/kg	Mouse
Phosphoric acid	7664-38-2	LD50 Oral	1530 mg/kg	Rat
		LD50 Dermal	2740 mg/kg	Rabbit

– Inhalation: Irritating to respiratory system.

b) *Skin corrosion/irritation*

Irritating to skin.

c) *Serious eye damage/irritation*

Irritating to eyes.

d) *Respiratory or skin sensitisation*

No data available.

e) *Germ cell mutagenicity*

No available data.

f) Carcinogenicity

No known significant effects or critical hazards.

g) Reproductive toxicity

No known significant effects or critical hazards.

h) STOT-single exposure

No data available

i) STOT-repeated exposure

No data available

j) Aspiration hazard.

No data available.

SECTION 12: Ecological information

12.1 Toxicity

No known significant effects or critical hazards.

12.2 Persistence and degradability

Products of degradation are carbon oxides, water, phosphates and some metallic oxides. These are less toxic than the product itself.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted.

12.6 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

SECTION 14: Transport Information

The product is not classified as dangerous goods according to UN model regulations (*IMDG*, ADR, RID and ADN)

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

The product is not classified as environmentally hazardous according to UN model regulations (*IMDG*, ADR, RID and ADN).

14.6. Special precautions for user

No data available.

14.7. Transport in bulk according to Annex II of Marpol112 and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

No legislation specific for the mixture is known.

15.2 Chemical Safety Assessment

The supplier has not carried out a chemical safety assessment for the product.

SECTION 16: Other information

This information is based upon the present state of our knowledge.