

# MSDS

## Binding solution (Part Number 14401)

Version 1.0

Date of issue: 2017-11-29

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

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#### 1.1 Product identifier

*Product Name* Binding solution

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

*Identified uses:* Binding solution

#### 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

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#### 2.1 Classification of the substance or mixture

Skin corrosion/irritation Category 2

Serious damage to eyes/eye irritation Category 2

#### 2.2 Label elements

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

*Pictogram:*



*Signal word:* Warning

*Hazard statement(s)*

H315 Causes skin irritation

H319 Causes serious eye irritation

*Precautionary statement(s)*

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

### 2.3 Other hazards

The substance does not fulfil the vPvB criteria.

## SECTION 3: Composition/information on ingredients

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### 3.2 Mixtures

<i>Substance</i>	<i>Concentration</i>	<i>Classification</i>
Guanidinium chloride EC-No.: 200-002-3 CAS-No.: 50-01-1	1 - 20 wt%	Acute toxicity (category 4) H302 Harmful if swallowed Skin corrosion/irritation (category 2) H315 Causes skin irritation Serious damage to eyes/eye irritation (category 2) H319 Causes serious eye irritation

## SECTION 4: First aid measures

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### 4.1 Description of first aid measures

*If on skin:* Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse

*If in eyes:* Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

### 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

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### 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**

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### **6.1 Personal precautions, protective equipment and emergency procedures**

Splash goggles. Full suit. Boots. Gloves. Suggested protective clothing might not be sufficient; consult a specialist before handling this product.

### **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**

Absorb with an inert material and put the spilled material in an appropriate waste disposal. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system.

## **SECTION 7: Handling and storage**

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### **7.1 Precautions for safe handling**

Avoid contact with eyes.

Wear suitable protective clothing.

If you feel unwell, seek medical attention and show the label when possible.

Keep away from incompatibles such as oxidizing agents.

### **7.2 Conditions for safe storage, including any incompatibilities**

Keep container tightly closed. Keep container in a cool, well-ventilated area. Preferred storage temperature is 4°C. For long-term storage keep at -20°C.

### **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**

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### **8.1 Control parameters**

Does not contain any substances with national limit values.

### **8.2 Exposure controls**

*Appropriate engineering controls:*

Good general ventilation should be sufficient to control airborne levels.

*Hygiene measures:*

Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.

*Respiratory protection:*

Wear appropriate respirator when ventilation is inadequate.

*Skin and body*

Lab coat

*Hands:*

Gloves

*Eye protection:*

Splash goggles

## **SECTION 9: Physical and chemical properties**

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### **9.1 Information on basic physical and chemical properties**

*a) Appearance:*

Clear liquid

*b) Odour:*

Odorless.

*c) Odour threshold:*

Not applicable

*d) pH:*

Neutral

*e) Melting point/freezing point:*

-0.1°C

*f) Initial boiling point and boiling range:*

99.9°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 = 1.0)

*m) Relative density:*

1.0 (Water = 1.0)

*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**

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### 10.1 Reactivity

Not measured

### 10.2 Chemical stability

The product is stable at room temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reactions are known.

### 10.4 Conditions to avoid

The product is unstable at a temperature above 37°C.

### 10.5 Incompatible materials

Reactive with oxidizing agents.

### 10.6 Hazardous decomposition products

No data available.

## **SECTION 11: Toxicological information**

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### 11.1. Information on toxicological effects

a) *Acute toxicity*

<i>Substance</i>	<i>CAS-no.</i>	<i>Test</i>	<i>Result</i>	<i>Species</i>
Guanidine Hydrochloride	50-01-1	LD50 Oral	475 mg/kg	Rat
		LD50 Oral	571 mg/kg	Mouse

*b) Skin corrosion/irritation*

Hazardous in case of skin contact (irritant).

*c) Serious eye damage/irritation*

Hazardous in case of eye contact (irritant).

*d) Respiratory or skin sensitisation*

Non-sensitizer for skin.

*e) Germ cell mutagenicity*

No available data.

*f) Carcinogenicity*

Not classified or listed by IARC, NTP, OSHA, EU and ACGIH.

*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**

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### **12.1 Toxicity**

No data available

### **12.2 Persistence and degradability**

No data available

### **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**

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### **13.1 Waste treatment methods**

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

## **SECTION 14: Transport Information**

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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**

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### **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**

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