

MSDS

Binding solution (Part Number 13101)

Version 1.0

Date of issue: 2017-10-11

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

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

2.1 Classification of the substance or mixture

Acute toxicity Category 4

Aquatic Chronic Category 3

2.2 Label elements

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

Pictogram:



Signal word: Warning

Hazard statement(s)

H302 Harmful if swallowed

H312 Harmful in contact with skin

H332 Harmful if inhaled

H412 Harmful to aquatic life with long lasting effects

Precautionary statement(s)

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P301+P312	IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
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

3.2 Mixtures

<i>Substance</i>	<i>Concentration</i>	<i>Classification</i>
Guanidine thiocyanate	20 - 80 wt%	Acute toxicity (category 4)
EC-No.: 209-812-1		H302 Harmful if swallowed
CAS-No.: 593-84-0		H312 Harmful in contact with skin
		H332 Harmful if inhaled
		Aquatic chronic (category 3)
		H412 Harmful to aquatic life with long lasting effects

SECTION 4: First aid measures

4.1 Description of first aid measures

<i>If inhaled:</i>	If inhaled, remove to fresh air. Get medical attention if symptoms appear.
<i>If on skin:</i>	In case of contact, immediately flush skin with plenty of water. Cover the irritated skin with an emollient. Remove contaminated clothing and shoes. Cold water may be used. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.
<i>If in eyes:</i>	Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs.
<i>If swallowed:</i>	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

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

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

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

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:

Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate.

Hands:

Gloves

Eye protection:

Safety glasses.

SECTION 9: Physical and chemical properties

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

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

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

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 thiocyanate	593-84-0	LD50 Oral	593 mg/kg	Rat
		LD50 Intraperitoneal	300 mg/kg	Mouse

b) Skin corrosion/irritation

Slightly hazardous in case of skin contact (irritant).

c) Serious eye damage/irritation

Slightly 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

12.1 Toxicity

<i>Substance</i>	<i>CAS-no.</i>	<i>Test</i>	<i>Result</i>	<i>Species</i>
Guanidine thiocyanate	593-84-0	EC50	42,4 mg/l - 48 h	Daphnia

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

Harmful to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

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

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.