



## CHEMICAL REMOVAL REAGENT A – SAFETY DATA SHEET

### SECTION 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

<b>1.1 Product Identifier</b>  <b>Product Catalog:</b> Chemical Removal Reagent A <b>CAS or REACH Number:</b> CAS: 593-84-0	
<b>1.2 Product use</b> Laboratory research.	
<b>1.3 Details of the Supplier of the Safety Data Sheet</b> Spatial Transcriptomics AB <b>Street Address:</b> Södra Fiskartorpsvägen 15 C <b>City:</b> Stockholm <b>Province:</b> Stockholm <b>Postal Code:</b> 114 33 <b>Phone number:</b> +46736697828 <b>Email:</b> sg@spatialtranscriptomics.com	
<b>1.4 Emergency telephone number: +1-703-527-3887 (CHEMTREC)</b>	

### SECTION 2 – HAZARDS IDENTIFICATION

<b>2.1 Classification of the substance or mixture</b> <b>GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)</b>  Acute toxicity (Oral) (Category 4), H302 Serious eye damage (Category 1), H318 Chronic aquatic toxicity (Category 3), H412
<b>2.2 GHS Label elements, including precautionary statements</b> Not a hazardous substance or mixture.

<b>Hazard pictograms</b> <b>Signal word:</b> Danger
<b>Hazard statement(s)</b> H302 Harmful if swallowed. H318 Causes serious eye damage.

H412 Harmful to aquatic life with long-lasting effects.

**Precautionary statement(s)**

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

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately consult local poison centre and physician

**Supplemental hazards**

EUH032 Contact with acids liberates very toxic gas.

Hazardous components which must be listed on the label: guanidinium thiocyanate

**2.3 Hazards not otherwise classified (HNOC) or not covered by GHS**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).

**SECTION 3 – COMPOSITION /INFORMATION ON INGREDIENTS**

**3.2 Mixture**

Ingredient	Concentration, % (w/w)	Cas #	EC Number	Index number	Classification
Guanidinium thiocyanate	>= 30 - < 50	593-84-0	209-812-1		H302 Acute Tox. 4, H332 Acute Tox. 4, H312 Acute Tox. 4, H412 Aquatic Chron. 3, H314 Skin Corr. 1C, H318 Eye Dam. 1 H301 Acute Tox. 3, H331 Acute Tox. 3, H402 Aquatic Acute 3, H314 Skin Corr. 1B, H319 Eye Irrit. 2 H315, Skin

					Irrit. 2 H335 STOT SE 3
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## SECTION 4 – FIRST AID MEASURES

### 4.1 Description of first aid measures

#### After eye contact

Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Remove contact lenses. Protect unharmed eye.

#### After inhalation

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult physician in case of complaints.

#### After skin contact

Immediately wash with water and soap and rinse thoroughly. Consult physician.

#### Ingestion

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 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 in section 11.

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

Harmful if swallowed, causes serious eye damage.

## SECTION 5 – FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

Dry chemical or carbon dioxide. Use water spray or alcohol-resistant foam to fight larger fires.

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

Exposure to decomposition products may be a hazard to health. Hazardous combustion products: Carbon oxides and sulfur oxides.

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary and protective clothing to prevent contact with skin.

### 5.4 Further information

Avoid breathing in fumes in case of fire/explosion.

## SECTION 6 – ACCIDENTAL RELEASE MEASURES

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

Wear protective equipment. Avoid breathing dust, vapour, gas, fumes, spray.

### **6.2 Environmental precautions**

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

### **6.3 Methods and material for containment and cleaning up**

Soak with inert absorbent (silica gel, acid binder, sawdust, sand, universal binder). Place spilled material in clean, dry, sealable, labelled container. Unsuitable: Sodium hypochlorite.

### **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**

Do not breathe vapours or dust. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Dispose of rinse water according to local regulations. Normal measures for preventive fire protection.

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

#### **Storage**

Keep container tightly closed in a dry and well-ventilated place.

**7.3 Specific end use(s)** Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

## **SECTION 8 – EXPOSURE CONTROL / PERSONAL PROTECTION**

### **8.1 Control parameters**

#### **Ingredients with workplace control parameters**

Contains no substances with occupational exposure limit values.

#### **Hazardous components without workplace control parameters**

Ingredients	CAS-No.
guanidinium thiocyanate	593-84-0

## 8.2 Exposure controls

**Appropriate engineering controls:** General industrial hygiene practice.

### **Personal protective equipment**

**Eye/face protection** Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing problems.

Do not wear contact lenses. Ensure that eyewash stations and safety showers are close to the workstation location. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**Skin protection** Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

### **Body Protection**

Choose body protection according to the amount and concentration of the dangerous substance at the work place. Acid-resistant protective clothing. Footwear protecting against chemicals.

**Control of environmental exposure** Do not let product enter drains.

## SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### **Appearance:**

**Physical state:** Liquid

**Colour:** No data available

**Odour:** Characteristic

**Odour threshold:** N.A.

**pH-value at 20 °C:** 7, neutral

**Change in condition Melting point/Melting range:** No data available

**Boiling point/Boiling range:** No data available

**Flash point:** No data available

**Evaporation rate:** No data available

**Flammability (solid, gas):** No data available

**Upper/lower flammability or explosive limits:** No data available

**Vapour pressure:** No data available

**Vapour density:** No data available

**Relative density:** No data available

**Density:** 1,09 g/cm<sup>3</sup>  
**Solubilities:** No data available  
**Partition coefficient: n-octanol/water:** No data available  
**Auto-ignition temperature:** No data available  
**Decomposition temperature:** No data available  
**Viscosity:** No data available  
**Explosive properties:** No data available  
**Oxidizing properties:** No data available.

**9.2 Other information** No data available.

## SECTION 10 – STABILITY AND REACTIVITY

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

Stable under recommended storage conditions. Hazardous decomposition products formed under fire conditions. Thiocyanates can develop poisonous gas in contact with strong acids. Keep away from oxidizing agents, and acidic or alkaline products.

### 10.4 Conditions to avoid

No data available.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In the event of fire, see section 5.

## SECTION 11 – TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute oral toxicity

Acute toxicity estimate: 1,578 mg/kg

Method: Calculation method

#### Acute inhalation toxicity

Acute toxicity estimate: > 20 mg/l

Exposure time: 4 hours

Test atmosphere: vapour

Method: Calculation method

**Acute dermal toxicity**

Acute toxicity estimate: > 2,000 mg/kg

Method: Calculation method

**Acute toxicity component (guanidinium thiocyanate)**

LD50 Oral - Rat - 593 mg/kg

Acute toxicity estimate: 1,100 mg/kg

Method: Converted acute toxicity point estimate

**Skin corrosion/irritation**

May cause skin irritation in susceptible persons.

**Serious eye damage/eye irritation**

Causes serious eye damage. Product may cause irreversible eye damage.

**Respiratory or skin sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**Specific target organ toxicity - single exposure**

Not classified based on available information.

**Specific target organ toxicity - repeated exposure**

Not classified based on available information.

**Aspiration hazard**

Not classified based on available information.

**Additional Information**

No data available

**SECTION 12 - ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Toxicity to fish**

No data available

**Toxicity to daphnia and other aquatic invertebrates**

EC50 - Daphnia magna (Water flea) - 42,4 mg/l. Exposure: 48 hours.

**Toxicity to algae**

No data available

**12.2 Persistence and degradability**

No data available

**12.3 Bioaccumulative potential**

No data available

#### **12.4 Mobility in soil**

##### **Soil/water partition**

**coefficient ( $K_{oc}$ ):** No data available

**Mobility:** No data available

#### **12.5 Results of PBT and vPvB assessment**

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

#### **12.6 Other adverse effects**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life with long lasting effects.

### **SECTION 13 – DISPOSAL CONSIDERATION**

#### **13.1 Waste treatment methods**

**Product** The product should not be allowed to enter drains, water courses or the soil. Send to a licensed waste management company. Dispose of as hazardous waste in compliance with local and national regulations.

**Contaminated packaging** Dispose of as unused product. Do not reuse empty containers.

### **SECTION 14 – TRANSPORT INFORMATION**

#### **DOT (US)**

Not dangerous goods

#### **IMDG**

Not dangerous goods

#### **IATA**

Not dangerous goods

### **SECTION 15 – REGULATORY INFORMATION**

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313 Components**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.



**SARA 311/312 Hazards**

Acute Health Hazard

**Massachusetts Right To Know Components**

None

**Pennsylvania Right To Know Components**

None

**New Jersey Right To Know Components**

None

**California Prop. 65 Components**

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

**TSCA list**

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

**SECTION 16 – OTHER INFORMATION**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**Department issuing SDS:** Spatial Transcriptomics AB

**Contact:** Dr. Stefania Giacomello

Disclaimer

**This SDS is intended for research use only and to be used in laboratories.** The SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of the materials in this kit. The information contained here has been compiled from sources considered by Spatial Transcriptomics to be dependable and is accurate to the best of the company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations. This information is offered in good Faith. Each user of this kit need to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Spatial Transcriptomics assumed no responsibility for injury to the recipient or third person for any damage to any property resulting from misuse or the product.

Safety Data Sheet (SDS) – Chemical Removal Reagent A

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