

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

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

- **1.1 Product identifier:**
- **Trade name:** CAA
- **Product number:** 806-00025-00
- **REACH Registration number:** Not relevant
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the mixture:** Kit Component
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Quantum-Si, Inc.  
29 Business Park Drive  
Branford, CT 06405  
+1 860-577-0668  
www.quantum-si.com/
- **1.4 Emergency telephone number:**  
Chemtrec (US and Canada): (800) 424-9300  
Chemtrec (Outside US): +1 (703) 527-3887 (Collect calls accepted)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.



Acute Tox. 4 H302 Harmful if swallowed.

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**
- **Hazard pictograms**



GHS07 GHS08

- **Signal word:** Warning
- **Hazard-determining components of labelling:**  
2-chloracetamide

(Contd. on page 2)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: CAA

(Contd. of page 1)

· **Hazard statements:**

- H302 Harmful if swallowed.
- H317 May cause an allergic skin reaction.
- H361 Suspected of damaging fertility or the unborn child.

· **Precautionary Statements:**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
- P264 Wash thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
- P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
- P330 Rinse mouth.
- P308+P313 If exposed or concerned: Get medical advice/attention.
- P321 Specific treatment (see on this label).
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· **Additional information:**

- This value refers to knowledge of known, established toxicological or ecotoxicological values.
- 0 % of the mixture consists of component(s) of unknown toxicity.
- Contains 0 % of components with unknown hazards to the aquatic environment.

· **2.3 Other hazards:** None known

· **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

\* **SECTION 3: Composition/information on ingredients**

· **3.2 Mixtures**

- **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 79-07-2	2-chloracetamide	1-5%
EINECS: 201-174-2	⚠ Acute Tox. 3, H301; ⚠ Repr. 2, H361f; ⚠ Skin Sens. 1, H317	
RTECS: AB 5075000	Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.1 %	

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures**

· **4.1 Description of first aid measures**

- **General information:** If symptoms persist, call a physician.
- **After inhalation:** In case of unconsciousness, place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
Generally the product does not irritate the skin.  
If skin irritation occurs, consult a doctor.

(Contd. on page 3)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: CAA

(Contd. of page 2)

- **After eye contact:**  
If eye irritation occurs, consult a doctor.  
Rinse opened eye for several minutes under running water.
- **After swallowing:**  
Do not induce vomiting without medical advice.  
Seek immediate medical attention.  
Never give anything by mouth to an unconscious person.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### \* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**  
Move containers from fire area if possible to do so without risk. Use water spray to cool fire-exposed containers.
- **Protective equipment:**  
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated materials as waste according to section 13.  
Ensure adequate ventilation.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire and explosion protection:** No special measures required.

(Contd. on page 4)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: CAA

(Contd. of page 3)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Hand protection**



Protective gloves

- **Material of gloves:**  
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Penetration time of glove material:**  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- **Eye/face protection**



Goggles recommended during refilling

- **Environmental exposure controls** None

(Contd. on page 5)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: CAA

(Contd. of page 4)

### SECTION 9: Physical and chemical properties

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

##### · General Information

##### · Physical state

Fluid

##### · Colour:

Clear

##### · Odour:

Odourless

##### · Melting point/freezing point:

Not determined.

##### · Boiling point or initial boiling point and boiling range

≥100 °C (7732-18-5 Water, distilled water, deionized water)

##### · Flammability

Not applicable.

##### · Lower and upper explosion limit

##### · Lower:

Not determined.

##### · Upper:

Not determined.

##### · Flash point:

Not applicable.

##### · Auto-ignition temperature:

Not applicable

##### · Decomposition temperature:

Not determined.

##### · pH

Not determined.

##### · Viscosity:

##### · Kinematic viscosity

Not determined.

##### · Dynamic:

Not determined.

##### · Solubility

##### · water:

Fully miscible.

##### · Partition coefficient n-octanol/water (log value)

Not determined.

##### · Vapour pressure @ 20 °C:

≤23 hPa (7732-18-5 Water, distilled water, deionized water)

##### · Density and/or relative density

##### · Density @ 20 °C:

0.9926 g/cm<sup>3</sup>

##### · Relative density:

Not determined.

##### · Vapour density:

Not determined.

#### · 9.2 Other information

##### · Appearance:

##### · Form:

Liquid

##### · Important information on protection of health and environment, and on safety.

##### · Ignition temperature:

Product is not self-igniting.

##### · Explosive properties:

Product does not present an explosion hazard.

##### · Solvent content:

##### · VOC (EC)

0.0 g/l  
0.00 %

##### · Change in condition

##### · Evaporation rate:

Not determined.

(Contd. on page 6)

**Safety data sheet**

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: CAA

(Contd. of page 5)

· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Non-Regulated Material
· <b>Flammable gases</b>	Non-Regulated Material
· <b>Aerosols</b>	Non-Regulated Material
· <b>Oxidising gases</b>	Non-Regulated Material
· <b>Gases under pressure</b>	Non-Regulated Material
· <b>Flammable liquids</b>	Non-Regulated Material
· <b>Flammable solids</b>	Non-Regulated Material
· <b>Self-reactive substances and mixtures</b>	Non-Regulated Material
· <b>Pyrophoric liquids</b>	Non-Regulated Material
· <b>Pyrophoric solids</b>	Non-Regulated Material
· <b>Self-heating substances and mixtures</b>	Non-Regulated Material
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Non-Regulated Material
· <b>Oxidising liquids</b>	Non-Regulated Material
· <b>Oxidising solids</b>	Non-Regulated Material
· <b>Organic peroxides</b>	Non-Regulated Material
· <b>Corrosive to metals</b>	Non-Regulated Material
· <b>Desensitised explosives</b>	Non-Regulated Material

**SECTION 10: Stability and reactivity**

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

**SECTION 11: Toxicological information**

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Harmful if swallowed.

· **LD/LC50 values relevant for classification:**

**79-07-2 2-chloroacetamide**

Oral	LD50	155 mg/kg (mouse)
------	------	-------------------

- **Skin corrosion/irritation** May cause an allergic skin reaction.
- **Sensitisation:** May cause an allergic skin reaction.
- **Reproductive toxicity** Suspected of damaging fertility or the unborn child.
- **11.2 Information on other hazards**

· **Endocrine disrupting properties**

None of the ingredients are listed.

(Contd. on page 7)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: CAA

(Contd. of page 6)

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.2 UN proper shipping name**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.3 Transport hazard class(es)**
- **ADR/ADN, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **14.4 Packing group**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

(Contd. on page 8)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: CAA

(Contd. of page 7)

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

- **Regulated explosives precursors**

None of the ingredients are listed.

- **Regulated poisons**

None of the ingredients are listed.

- **Reportable explosives precursors**

None of the ingredients are listed.

- **Reportable poisons**

None of the ingredients are listed.

- **Directive 2012/18/EU** Substance is not listed.

- **Named dangerous substances - ANNEX I** None of the ingredients are listed.

- **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 3: Acute toxicity – Category 3

Acute Tox. 4: Acute toxicity – Category 4

Skin Sens. 1: Skin sensitisation – Category 1

Repr. 2: Reproductive toxicity – Category 2

Repr. 2: Reproductive toxicity – Category 2

- **\* Data compared to the previous version altered.**

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

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

- **1.1 Product identifier:**
- **Trade name: K Linker (DBCO Complex)**
- **Product number:** 806-000021-00
- **REACH Registration number:** Not relevant
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the mixture:** Kit Component
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Quantum-Si, Inc.  
29 Business Park Drive  
Branford, CT 06405  
+1 860-577-0668  
www.quantum-si.com/
- **1.4 Emergency telephone number:**  
Chemtrec (US and Canada): (800) 424-9300  
Chemtrec (Outside US): +1 (703) 527-3887 (Collect calls accepted)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified, according to the GB CLP regulation.
- **2.2 Label elements**
- **Hazard pictograms** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material
- **Additional information:**  
This value refers to knowledge of known, established toxicological or ecotoxicological values.  
0 % of the mixture consists of component(s) of unknown toxicity.  
Contains 1 % of components with unknown hazards to the aquatic environment.
- **2.3 Other hazards:** None known
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture: consisting of non-regulated material.

· **Dangerous components:**

CAS: 35013-72-0	(+)-Biotin N-hydroxysuccinimide ester ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	≤2.5%
CAS: 1185-53-1 EINECS: 214-684-5	Tris Hydrochloride ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	<2.5%

(Contd. on page 2)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

**Trade name: K Linker (DBCO Complex)**

(Contd. of page 1)

· **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

· **4.1 Description of first aid measures**

- **General information:** If symptoms persist, call a physician.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Generally the product does not irritate the skin.  
If skin irritation occurs, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.  
If eye irritation occurs, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### \* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**  
Move containers from fire area if possible to do so without risk. Use water spray to cool fire-exposed containers.
- **Protective equipment:**  
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.

(Contd. on page 3)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: **K Linker (DBCO Complex)**

(Contd. of page 2)

- **Information about fire and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Hand protection** Not required.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.
- **Eye/face protection** Not required.
- **Environmental exposure controls** None

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Clear
- **Odour:** Odourless
- **Melting point/freezing point:** Not determined.
- **Boiling point or initial boiling point and boiling range** ≥100 °C (7732-18-5 Water, distilled water, deionized water)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** Not applicable.
- **Auto-ignition temperature:** Not applicable
- **Decomposition temperature:** Not determined.

(Contd. on page 4)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: K Linker (DBCO Complex)

(Contd. of page 3)

· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure:</b>	Not determined.
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density:</b>	Not determined.
· <b>Vapour density:</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not self-igniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC (EC)</b>	0.0 g/l 0.00 %
· <b>Change in condition</b>	
· <b>Evaporation rate:</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Non-Regulated Material
· <b>Flammable gases</b>	Non-Regulated Material
· <b>Aerosols</b>	Non-Regulated Material
· <b>Oxidising gases</b>	Non-Regulated Material
· <b>Gases under pressure</b>	Non-Regulated Material
· <b>Flammable liquids</b>	Non-Regulated Material
· <b>Flammable solids</b>	Non-Regulated Material
· <b>Self-reactive substances and mixtures</b>	Non-Regulated Material
· <b>Pyrophoric liquids</b>	Non-Regulated Material
· <b>Pyrophoric solids</b>	Non-Regulated Material
· <b>Self-heating substances and mixtures</b>	Non-Regulated Material
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Non-Regulated Material
· <b>Oxidising liquids</b>	Non-Regulated Material
· <b>Oxidising solids</b>	Non-Regulated Material
· <b>Organic peroxides</b>	Non-Regulated Material
· <b>Corrosive to metals</b>	Non-Regulated Material
· <b>Desensitised explosives</b>	Non-Regulated Material

(Contd. on page 5)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: **K Linker (DBCO Complex)**

(Contd. of page 4)

### SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** No data available.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT (Specific target organ toxicity)-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT (Specific target organ toxicity)-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

#### · **Endocrine disrupting properties**

None of the ingredients are listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.

(Contd. on page 6)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: **K Linker (DBCO Complex)**

(Contd. of page 5)

- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.2 UN proper shipping name**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.3 Transport hazard class(es)**
- **ADR/ADN, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **14.4 Packing group**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients are listed.

· **Regulated poisons**

None of the ingredients are listed.

· **Reportable explosives precursors**

None of the ingredients are listed.

· **Reportable poisons**

None of the ingredients are listed.

- **Directive 2012/18/EU** Substance is not listed.

(Contd. on page 7)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

**Trade name: K Linker (DBCO Complex)**

(Contd. of page 6)

· **Named dangerous substances - ANNEX I** None of the ingredients are listed.

· **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· **\* Data compared to the previous version altered.**

SDS created by MSDS Authoring Services [www.msdsauthoring.com](http://www.msdsauthoring.com) +1-877-204-9106

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

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

- **1.1 Product identifier:**
  - **Trade name:** Lys C Buffer
  - **Product number:** 806-00010-00
  - **REACH Registration number:** Not relevant
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the mixture:** Kit Component
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Quantum-Si, Inc.  
29 Business Park Drive  
Branford, CT 06405  
+1 860-577-0668  
www.quantum-si.com/
- **1.4 Emergency telephone number:**  
Chemtrec (US and Canada): (800) 424-9300  
Chemtrec (Outside US): +1 (703) 527-3887 (Collect calls accepted)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
The product is not classified, according to the GB CLP regulation.
- **2.2 Label elements**
  - **Hazard pictograms** Non-Regulated Material
  - **Signal word:** Non-Regulated Material
  - **Hazard statements:** Non-Regulated Material
  - **Additional information:**  
This value refers to knowledge of known, established toxicological or ecotoxicological values.  
0 % of the mixture consists of component(s) of unknown toxicity.  
Contains 0 % of components with unknown hazards to the aquatic environment.
- **2.3 Other hazards:** None known
- **Results of PBT and vPvB assessment**
  - **PBT:** Not applicable.
  - **vPvB:** Not applicable.

### SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
  - **Description:** Mixture: consisting of non-regulated material.
  - **Dangerous components:** Non-Regulated Material
  - **Additional information:** For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: **Lys C Buffer**

(Contd. of page 1)

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** If symptoms persist, call a physician.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**  
Generally the product does not irritate the skin.  
If skin irritation occurs, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water.  
If eye irritation occurs, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### \* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**  
Move containers from fire area if possible to do so without risk. Use water spray to cool fire-exposed containers.
- **Protective equipment:**  
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire and explosion protection:** No special measures required.

(Contd. on page 3)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: Lys C Buffer

(Contd. of page 2)

- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **7.3 Specific end use(s)** No further relevant information available.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.  
Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.
- **Hand protection** Not required.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.
- **Eye/face protection**



Goggles recommended during refilling

- **Environmental exposure controls** None

### SECTION 9: Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Fluid
- **Colour:** Clear
- **Odour:** Odourless
- **Melting point/freezing point:** Not determined.
- **Boiling point or initial boiling point and boiling range** ≥100 °C (7732-18-5 Water, distilled water, deionized water)
- **Flammability** Not applicable.
- **Lower and upper explosion limit**
- **Lower:** Not determined.

(Contd. on page 4)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: Lys C Buffer

(Contd. of page 3)

· <b>Upper:</b>	Not determined.
· <b>Flash point:</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	Not applicable
· <b>Decomposition temperature:</b>	Not determined.
· <b>pH</b>	Not determined.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure @ 20 °C:</b>	≤23 hPa (7732-18-5 Water, distilled water, deionized water)
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density:</b>	Not determined.
· <b>Vapour density:</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not self-igniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC (EC)</b>	0.0 g/l 0.00 %
· <b>Change in condition</b>	
· <b>Evaporation rate:</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Non-Regulated Material
· <b>Flammable gases</b>	Non-Regulated Material
· <b>Aerosols</b>	Non-Regulated Material
· <b>Oxidising gases</b>	Non-Regulated Material
· <b>Gases under pressure</b>	Non-Regulated Material
· <b>Flammable liquids</b>	Non-Regulated Material
· <b>Flammable solids</b>	Non-Regulated Material
· <b>Self-reactive substances and mixtures</b>	Non-Regulated Material
· <b>Pyrophoric liquids</b>	Non-Regulated Material
· <b>Pyrophoric solids</b>	Non-Regulated Material
· <b>Self-heating substances and mixtures</b>	Non-Regulated Material
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Non-Regulated Material
· <b>Oxidising liquids</b>	Non-Regulated Material
· <b>Oxidising solids</b>	Non-Regulated Material

(Contd. on page 5)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: Lys C Buffer

(Contd. of page 4)

- |                                  |                        |
|----------------------------------|------------------------|
| · <b>Organic peroxides</b>       | Non-Regulated Material |
| · <b>Corrosive to metals</b>     | Non-Regulated Material |
| · <b>Desensitised explosives</b> | Non-Regulated Material |

### SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** No data available.
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Sensitisation:** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT (Specific target organ toxicity)-single exposure**  
Based on available data, the classification criteria are not met.
- **STOT (Specific target organ toxicity)-repeated exposure**  
Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.
- **11.2 Information on other hazards**

#### · **Endocrine disrupting properties**

None of the ingredients are listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.

(Contd. on page 6)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: Lys C Buffer

(Contd. of page 5)

- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.

### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.2 UN proper shipping name**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.3 Transport hazard class(es)**
- **ADR/ADN, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **14.4 Packing group**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients are listed.

· **Regulated poisons**

None of the ingredients are listed.

· **Reportable explosives precursors**

None of the ingredients are listed.

· **Reportable poisons**

None of the ingredients are listed.

- **Directive 2012/18/EU** Substance is not listed.

(Contd. on page 7)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 2 (replaces version 1)

Revision: 17.01.2024

Trade name: Lys C Buffer

(Contd. of page 6)

- **Named dangerous substances - ANNEX I** None of the ingredients are listed.

- **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

- **\* Data compared to the previous version altered.**

SDS created by MSDS Authoring Services [www.msdsauthoring.com](http://www.msdsauthoring.com) +1-877-204-9106

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

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

- **1.1 Product identifier:**
- **Trade name:** TCEP
- **Product number:** 806-00024-00
- **REACH Registration number:** Not relevant
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Application of the substance / the mixture:** Kit Component
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Quantum-Si, Inc.  
29 Business Park Drive  
Branford, CT 06405  
+1 860-577-0668  
www.quantum-si.com/
- **1.4 Emergency telephone number:**  
Chemtrec (US and Canada): (800) 424-9300  
Chemtrec (Outside US): +1 (703) 527-3887 (Collect calls accepted)

### SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2 H319 Causes serious eye irritation.

- **2.2 Label elements**
- **Hazard pictograms**



GHS07

- **Signal word:** Warning
- **Hazard-determining components of labelling:**  
TCEP, Hydrochloride
- **Hazard statements:**  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.
- **Precautionary Statements:**  
P264 Wash thoroughly after handling.  
P280 Wear eye protection / face protection.

(Contd. on page 2)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

**Trade name: TCEP**

(Contd. of page 1)

- P302+P352 IF ON SKIN: Wash with plenty of water.
- P321 Specific treatment (see on this label).
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P337+P313 If eye irritation persists: Get medical advice/attention.

**Additional information:**

This value refers to knowledge of known, established toxicological or ecotoxicological values.  
0 % of the mixture consists of component(s) of unknown toxicity.  
Contains 0 % of components with unknown hazards to the aquatic environment.

- **2.3 Other hazards:** None known
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

### \* SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Mixture: consisting of non-regulated material.

**Dangerous components:**

51805-45-9	TCEP, Hydrochloride	 Skin Corr. 1B, H314; Eye Dam. 1, H318	2-5%
------------	---------------------	---	------

- **Additional information:** For the wording of the listed hazard phrases refer to section 16.

### SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** If symptoms persist, call a physician.
- **After inhalation:** In case of unconsciousness, place patient stably in side position for transportation.
- **After skin contact:**  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation occurs, consult a doctor.
- **After eye contact:**  
Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.  
If easy to do so, remove contact lenses if worn.  
If eye irritation occurs, consult a doctor.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **4.2 Most important symptoms and effects, both acute and delayed**  
No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### \* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.

(Contd. on page 3)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: TCEP

(Contd. of page 2)

- **5.2 Special hazards arising from the substance or mixture:** No further relevant information available.
- **5.3 Advice for firefighters**  
If possible, prevent run-off water from entering storm drains, bodies of water, or other environmentally sensitive areas.
- **Protective equipment:**  
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face piece operated in positive pressure mode.

### SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** Dilute with plenty of water.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Ensure adequate ventilation.  
Dispose of the material collected according to regulations.
- **6.4 Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Prevent formation of aerosols.
- **Information about fire and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **7.3 Specific end use(s)** No further relevant information available.

### \* SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**
- **Ingredients with limit values that require monitoring at the workplace:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **8.2 Exposure controls**
- **Appropriate engineering controls** No further data; see section 7.
- **Individual protection measures, such as personal protective equipment**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.

(Contd. on page 4)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

**Trade name: TCEP**

(Contd. of page 3)

Keep away from foodstuffs, beverages and feed.  
Immediately remove all soiled and contaminated clothing.  
Wash hands before breaks and at the end of work.  
Avoid contact with the eyes and skin.

- **Respiratory protection:** Not required.
- **Hand protection**



Protective gloves

- **Material of gloves:**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

- **Penetration time of glove material:**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye/face protection**



Tightly sealed goggles

- **Environmental exposure controls** None

### SECTION 9: Physical and chemical properties

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

- **General Information**

- **Physical state**

Fluid

- **Colour:**

Clear

- **Odour:**

Odourless

- **Melting point/freezing point:**

Not determined.

- **Boiling point or initial boiling point and boiling range**

≥100 °C (7732-18-5 Water, distilled water, deionized water)

- **Flammability**

Not applicable.

- **Lower and upper explosion limit**

- **Lower:**

Not determined.

- **Upper:**

Not determined.

- **Flash point:**

Not applicable.

- **Auto-ignition temperature:**

Not applicable

- **Decomposition temperature:**

Not determined.

- **pH**

Not determined.

(Contd. on page 5)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: TCEP

(Contd. of page 4)

· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Fully miscible.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure @ 20 °C:</b>	≤23 hPa (7732-18-5 Water, distilled water, deionized water)
· <b>Density and/or relative density</b>	
· <b>Density @ 20 °C:</b>	1.0012 g/cm <sup>3</sup>
· <b>Relative density:</b>	Not determined.
· <b>Vapour density:</b>	Not determined.
· <b>9.2 Other information</b>	
· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not self-igniting.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.
· <b>Solvent content:</b>	
· <b>VOC (EC)</b>	0.0 g/l 0.00 %
· <b>Change in condition</b>	
· <b>Evaporation rate:</b>	Not determined.
· <b>Information with regard to physical hazard classes</b>	
· <b>Explosives</b>	Non-Regulated Material
· <b>Flammable gases</b>	Non-Regulated Material
· <b>Aerosols</b>	Non-Regulated Material
· <b>Oxidising gases</b>	Non-Regulated Material
· <b>Gases under pressure</b>	Non-Regulated Material
· <b>Flammable liquids</b>	Non-Regulated Material
· <b>Flammable solids</b>	Non-Regulated Material
· <b>Self-reactive substances and mixtures</b>	Non-Regulated Material
· <b>Pyrophoric liquids</b>	Non-Regulated Material
· <b>Pyrophoric solids</b>	Non-Regulated Material
· <b>Self-heating substances and mixtures</b>	Non-Regulated Material
· <b>Substances and mixtures, which emit flammable gases in contact with water</b>	Non-Regulated Material
· <b>Oxidising liquids</b>	Non-Regulated Material
· <b>Oxidising solids</b>	Non-Regulated Material
· <b>Organic peroxides</b>	Non-Regulated Material
· <b>Corrosive to metals</b>	Non-Regulated Material
· <b>Desensitised explosives</b>	Non-Regulated Material

(Contd. on page 6)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: TCEP

(Contd. of page 5)

### SECTION 10: Stability and reactivity

- **10.1 Reactivity:** No further relevant information available.
- **10.2 Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions:** No dangerous reactions known.
- **10.4 Conditions to avoid:** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### \* SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:** No data available.
- **Skin corrosion/irritation**  
Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye irritation.
- **Sensitisation:** May cause mild sensitization.
- **11.2 Information on other hazards**

#### · **Endocrine disrupting properties**

None of the ingredients are listed.

### SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- **12.3 Bioaccumulative potential:** No further relevant information available.
- **12.4 Mobility in soil:** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties**  
The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.  
Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

(Contd. on page 7)

### Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: TCEP

(Contd. of page 6)

#### SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

#### SECTION 14: Transport information

- **14.1 UN number or ID number**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.2 UN proper shipping name**
- **ADR/ADN** UN-
- **IMDG, IATA** Non-Regulated Material
- **14.3 Transport hazard class(es)**
- **ADR/ADN, ADN, IMDG, IATA**
- **Class** Non-Regulated Material
- **14.4 Packing group**
- **ADR/ADN, IMDG, IATA** Non-Regulated Material
- **14.5 Environmental hazards:** Not applicable.
- **14.6 Special precautions for user** Not applicable.
- **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

#### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Poisons Act**

· **Regulated explosives precursors**

None of the ingredients are listed.

· **Regulated poisons**

None of the ingredients are listed.

· **Reportable explosives precursors**

None of the ingredients are listed.

· **Reportable poisons**

1310-73-2	Sodium Hydroxide	12% of total caustic alkalinity
-----------	------------------	---------------------------------

- **Directive 2012/18/EU** Substance is not listed.
- **Named dangerous substances - ANNEX I** None of the ingredients are listed.

(Contd. on page 8)

## Safety data sheet

REACH: Regulation (EC) No 2020/878 (in particular as amended by Regulation (EU) No. 1907/2006 & 2015/830 with respect to SDSs) & CLP: Regulation (EC) No 1272/2008

Printing date 17.01.2024

Version number 3 (replaces version 2)

Revision: 17.01.2024

Trade name: TCEP

(Contd. of page 7)

· **National regulations:**

The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

· **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

· **\* Data compared to the previous version altered.**

SDS created by MSDS Authoring Services    www.msdsauthoring.com    +1-877-204-9106

# SAFETY DATA SHEET

This document is in compliance with requirements for Safety Data Sheets implemented under U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2024 and equivalent State Standards), guidelines from the United Nations Globally Harmonized System of Classification of Chemicals (GHS), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Hazardous Products Regulations (HPR), and the European Union regulation on the Classification, Labelling and Packaging of Substances and Mixtures (EC No. 1272/2008, EU 2020/878). See section 16 for more information on national regulations.

## SECTION 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFICATION

- **PRODUCT NAME:** ISA (*Tetrafluoroborate Salt*)
- **PRODUCT CODE:** 806-00020-00

### 1.2 PRODUCT USE AND RESTRICTIONS

- **IDENTIFIED USE:** Kit component for protein sequencing process.
- **USES ADVISED AGAINST:** Procedures not related to the intended use of this product.
- **IDENTIFIED USERS:** For sale to, use, and storage by personnel trained in handling product safely.

### 1.3 MANUFACTURER INFORMATION

- **MANUFACTURER/SUPPLIER:** Quantum SI, Inc.
- **ADDRESS:** 29 Business Park Dr., Suite C; Branford, CT; 06405
- **BUSINESS PHONE:** 866-688-7374 (8:00 am to 5:00 pm, Eastern Standard Time)
- **EMERGENCY PHONE:** +1- Chemtrec (US and Canada): +1-800-424-9300  
Outside US): +1-703- 527-3887
- **Email:** support@quantum-si.com

## SECTION 2: HAZARD IDENTIFICATION

### 2.1 HAZARD CLASSIFICATION (US OSHA, CANADIAN WHMIS, and EU CLP)

- Not classified as hazardous under pertinent national standards.

### 2.2 LABEL ELEMENTS (US OSHA, CANADIAN WHMIS, and EU CLP)

- **Hazard Pictograms:** Not applicable.
- **Signal Word:** Not applicable.
- **Hazard Statements:** Not applicable.
- **Precautionary Statements:** Not applicable.

### 2.3 OTHER PERTINENT DATA ON HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS

- Not applicable.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 IDENTIFICATION OF HAZARDOUS SUBSTANCES IN PRODUCT

NAME	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w) <sup>1</sup>
Imidazole-1-Sulfonyl Azide Tetrafluoroborate	1357503-31-1	Acute toxicity – Oral (Category 4)	3-7%
The components of this product do not contribute health or physical hazards at the concentrations present.			Balance

<sup>1</sup> The exact composition is a trade secret. All required hazard and safety information has been provided for the products, per the regulations.

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

- BASIC FIRST AID BY EXPOSURE ROUTE:**

<u>AREA EXPOSED</u>	<u>TREATMENT</u>
---------------------	------------------

<b>Eye Contact:</b>	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention should any irritation develop.
---------------------	---

<b>Skin Contact:</b>	Flush area with warm, running water for several minutes. Seek medical attention should any irritation develop.
----------------------	--

<b>Inhalation:</b>	Obtain fresh air. Seek medical attention if irritation develops after exposure ends.
--------------------	--

<b>Ingestion:</b>	If conscious only: Rinse mouth with water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.
-------------------	---

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- ACUTE HEALTH EFFECTS:**

<u>AREA EXPOSED</u>	<u>EFFECTS</u>
---------------------	----------------

<b>Eye Contact:</b>	May cause eye irritation upon prolonged exposure.
---------------------	---

<b>Skin Contact:</b>	May cause skin irritation upon prolonged exposure.
----------------------	--

<b>Inhalation:</b>	Not anticipated to be a potential route of exposure.
--------------------	--

<b>Ingestion:</b>	Not anticipated to be a potential route of exposure.
-------------------	--

- CHRONIC HEALTH EFFECTS:** None known.

- TARGET ORGANS:** None known.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- GENERAL INFORMATION: For all exposures:** In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.

- RECOMMENDATIONS TO PHYSICIANS:** Treat symptomatically.

- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** None known.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

- RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Dry Powder, Foam, Carbon Dioxide, or any other type.

- UNSUITABLE FIRE EXTINGUISHING MEDIA:** None.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- NFPA FLAMMABILITY CLASSIFICATION:**

NFPA Rating:



NFPA Hazard Classification: Not classified.

### 5.3 UNUSUAL HAZARDS IN FIRE SITUATIONS

<u>POTENTIAL HAZARD</u>	<u>DESCRIPTION FOR PRODUCT</u>
-------------------------	--------------------------------

<b>Decomposition:</b>	Generates irritating vapors, carbon monoxide, carbon dioxide, and compounds containing sulfur, fluorine and nitrogen.
-----------------------	---

<b>Incompatibilities:</b>	See Section 10 (Reactivity and Stability).
---------------------------	--

<b>Explosion Sensitivity to Mechanical Impact:</b>	Not applicable.
--	-----------------

<b>Explosion Sensitivity to Static Discharge:</b>	Not applicable.
---	-----------------

## SECTION 5: FIREFIGHTING MEASURES

### 5.4 ADVICE FOR FIREFIGHTERS

- Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Use damp sponge or polypad to carefully cleanse contaminated area or items. If appropriate, further clean contaminated area and equipment with soap and water solution, followed by a water rinse.

### 6.2 ENVIRONMENTAL PRECAUTIONS

- **IN CASE OF SPILL:** Collect spillage promptly. Avoid response actions that can cause a release of a significant amount of substance into the environment. Avoid accidental dispersal of spilled material into soil, waterways, and sewers.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

- **SPILL RESPONSE EQUIPMENT:** Polypad or sponge. Appropriate waste container.

### 6.4 REFERENCE TO OTHER SECTIONS

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

- **HYGIENE PRACTICES:** Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists, sprays, or aerosols. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
- **HANDLING PRACTICES:** Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

### 7.2 CONDITIONS FOR SAFE STORAGE

- **STORAGE PRACTICES:** Ensure all containers are correctly labeled. Store containers away from direct sunlight, and sources of intense heat. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual material; therefore, empty containers should be handled with care.
- **INCOMPATIBILITIES:** See Section 10 (Stability and Reactivity).

### 7.3 SPECIFIC END USES

- This product is for use in protein sequencing processes by trained laboratory personnel.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

- **AIRBORNE EXPOSURE LIMITS:**
  - **U.S:** No airborne occupational exposure limits have been established.
  - **Canada:** No airborne occupational exposure limits have been established.
  - **EU:** No airborne occupational exposure limits have been established.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** None established.
- **DERIVED NO EFFECTS LEVEL:** No levels have currently been established for the components of this product.
- **PREDICTED NO EFFECT CONCENTRATION:** No such concentrations have been determined for the components of this product.

### 8.2 EXPOSURE CONTROLS

- **GENERAL GUIDELINES:** This product is intended for use by trained personnel as part of a kit.
- **ENGINEERING CONTROLS:** Ensure the area has adequate ventilation to ensure minimal inhalation of mists or sprays occurs. Eye wash stations and safety showers should be readily available.
- **RESPIRATORY PROTECTION:** None needed under normal circumstances of use.
- **HAND PROTECTION:** None typically needed for anticipated use. Neoprene or nitrile gloves are recommended if skin contact can occur (e.g., spill clean-up). Ensure gloves are intact prior to use.
- **EYE PROTECTION:** Safety glasses are recommended if splash or spray can occur during use (e.g., during refilling of unit).
- **BODY PROTECTION:** Body protection suitable to task is recommended (e.g. laboratory coat).
- **OTHER PROTECTIVE MEASURES:** Wash hands during breaks and at the end of handling the material. Immediately remove any contaminated clothing.

### 8.3 ENVIRONMENTAL EXPOSURE CONTROLS

- Minimize the generation of mists, sprays, or aerosols while using this product. Avoid release into the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARANCE AND DISTINGUISHING CHARACTERISTICS:**

<u>PROPERTY</u>	<u>DATA</u>
State:	Liquid
Color:	Colorless
Odor:	Odorless
Odor Threshold:	Not determined
pH:	9-11

- **PHYSICAL DATA:**

<u>PROPERTY</u>	<u>DATA</u>
Melting Point/Freezing Point:	Not determined.
Initial Boiling Point/Boiling Range:	Greater or equal to 100 °C (212 °F)
Flash Point:	Not applicable.
Evaporation Rate (Water = 1):	Approximately 1.0
Flammability:	Not applicable.
Upper/Lower Explosion Limits	Not applicable.
Vapor Pressure:	Less than or equal to 23 hPa (17.3 mmHg)
Vapor Density	Not determined.
Relative Density at 20 °C (68 °F)	Approximately 1.01 g.cm <sup>3</sup> ; (8.44 lb./gal)
Solubility:	Totally soluble in water
Partition Coefficient/n-octanol/water:	Not determined
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	Not determined.
Kinematic Viscosity:	Not determined.
Particle Characteristics:	Not applicable.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

### 9.2 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- **Information regarding Physical Hazard Classes** This product is not classified under any physical hazard class.

- **Other Safety Characteristics** Not applicable

## 9.3 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- **VOC content:** 0.00%; 0.0 g/L

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY AND CHEMICAL STABILITY

- The product is not reactive under typical conditions of use or handling.
- Normally stable under standard temperatures and pressures.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS (INCLUDING THOSE ASSOCIATED WITH FORESEEABLE EMERGENCY)

- Product is not self-reactive, water-reactive, or air-reactive; it will not undergo hazardous polymerization.

### 10.3 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals and adverse storage conditions.

### 10.4 INCOMPATIBLE MATERIALS

- Strong oxidizing agents, strong acids, strong bases.

### 10.5 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include carbon oxides, compounds containing nitrogen, sodium, and fluorine.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON ACUTE TOXICITY

- **PRODUCT TOXICOLOGY DATA:** The following are calculated estimates for the product:
  - Acute Toxicity Estimate (Oral) > 5000 mg/kg
- **COMPONENT TOXICOLOGY DATA:** The following data are available for components of this product:
  - **Imidazole-1-Sulfonyl Azide Tetrafluoroborate**  
Acute Toxicity Estimate): 500 mg/kg
- **DEGREE OF IRRITATION:** This product is not anticipated to cause skin or eye irritation.
- **SENSITIZATION:** This product does not contain any compound reported to as a skin or respiratory sensitizer.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazard Information) and Section 4 (First-Aid Measures) for additional details.
  - **Eyes:** May cause eye irritation upon prolonged exposure.
  - **Skin:** May cause skin irritation upon prolonged exposure.
  - **Inhalation:** Not anticipated to be a significant route of occupational exposure.
  - **Ingestion:** Not anticipated to be a significant route of occupational exposure.

### 11.2 INFORMATION ON CHRONIC TOXICITY

- **CARCINOGENICITY STATUS:** This product is not listed as a carcinogen by NTP, IARC, or OSHA.
- **REPRODUCTIVE TOXICITY INFORMATION:** Not applicable.
- **MUTAGENIC EFFECTS** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

## SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

### 11.3 OTHER USEFUL TOXICOLOGY INFORMATION

- **ENDOCRINE-DISRUPTING PROPERTIES:** Not applicable.
- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 ENVIRONMENTAL TOXICITY

- No aquatic toxicity or other environmental data are available for the components of this product.

### 12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

### 12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.

### 12.4 MOBILITY IN SOIL

- Based on its total solubility in water, this product is expected to have significant mobility in soil.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

- Not classified as PBT or vPvB.

### 12.6 ENDOCRINE DISRUPTING PROPERTIES

- None reported.

### 12.7 OTHER ADVERSE ENVIRONMENTAL EFFECTS

- None reported.

## SECTION 13: DISPOSAL CONSIDERATION

### 13.1 WASTE TREATMENT METHODS

- Dispose of in accordance with local, state, and national regulations.

### 13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** Not applicable to wastes consisting only of this product.
- **SEWAGE DISPOSAL:** Waste should not be disposed of by release to sewers.

### 13.3 DISPOSITION OF EMPTY CONTAINERS

- Empty containers may contain residual material; therefore, empty containers should be handled with care.
- Empty containers should be discarded properly.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS

- **DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION						

- **CANADIAN TRANSPORTATION INFORMATION:** This product is not regulated by Transport Canada as dangerous good under Canadian transportation standards.

## SECTION 14: TRANSPORT INFORMATION (Continued)

- **EUROPEAN TRANSPORT CLASSIFICATION BY ROAD (ADR)/RAIL (RID):** Product is not regulated as a dangerous good.
- **IATA DESIGNATION:** Product is not regulated as a dangerous good by the International Air Transport Association.
- **IMO DESIGNATION:** Product is not regulated as a dangerous good by the International Maritime Organization.

### 14.2 ENVIRONMENTAL HAZARDS

- None known.

### 14.3 SPECIAL PRECAUTIONS FOR TRANSPORTERS

- None established.

### 14.4 TRANSPORT IN BULK

- **ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:** Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1 OTHER IMPORTANT U.S. SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- **US TOXICITY SUBSTANCES CONTROL INVENTORY:** Imidazole-1-Sulfonyl Azide Tetrafluoroborate is not listed. When used for research and development purposes, this product is exempt from the regulation.
- **U.S. SARA THRESHOLD PLANNING QUANTITY:** Not applicable.
- **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** Not applicable.
- **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable to the product, based on composition and volume.
- **U.S. SARA TITLE 313:** 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
- **US CLEAN AIR ACT (SECTION 112r):** Not applicable.

### 15.2 OTHER IMPORTANT U.S. STATE REGULATIONS FOR COMPONENTS

- **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.
- **NEW JERSEY RIGHT TO KNOW LIST HAZARDOUS SUBSTANCES LIST:** No product ingredient is listed.
- **NEW JERSEY ENVIRONMENTAL SUBSTANCES LIST:** No product ingredient is listed.
- **PENNSYLVANIA RIGHT-TO-KNOW LIST:** No product ingredient is listed.

### 15.3 CANADIAN AND EU SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- **ADDITIONAL WHMIS INFORMATION:** This SDS contains all the required elements under the Canadian Hazardous Products regulations (SOR 2022-272).
- **CANADIAN DSL/NDL INVENTORY STATUS:** All components of this product are listed or exempted.
- **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** The components of this product are not on the CEPA Priority Substances Lists.
- **E.U. REACH:** Contains no substance on the REACH candidate list. Contains no REACH Annex XIV substances. REACH (1907/2006). Contains no substance with REACH Restrictions.

### 15.4 CHEMICAL SAFETY ASSESSMENT

- **ASSESSMENT INFORMATION:** No chemical safety assessment has been carried out.

## SECTION 16: OTHER INFORMATION

### 16.1 INDICATION OF CHANGE

- **DATE OF PREPARATION:** November 17, 2024
- **SUPERCEDES:** Not applicable.
- **CHANGE INDICATED:** New product.

## SECTION 16: OTHER INFORMATION (Continued)

### 16.2 HAZARDOUS MATERIALS SYSTEM RATING

Health	0	
Flammability	0	<i>(Personal Protective Equipment Rating: Occupational Use situations: Refer to section 8 for guidance on the selection of personal production.</i>
Physical Hazard	0	
Protective Equipment	*	

### 16.3 DEFINITIONS

#### SECTION EXPLANATION OF TERMS/ABBREVIATIONS

ALL	<u>OSHA</u> : U.S. Federal Occupational Safety and Health Administration. <u>WHMIS</u> : Canadian Workplace Hazardous Materials Standard. <u>GHS</u> : Globally Harmonized System of Classification of Chemical Substances. <u>HCS</u> : Hazard Communication Standard (U.S.). <u>HPR</u> : Hazardous Products Regulations (Canada). <u>EU</u> : European Union. <u>CLP</u> : Union Classification, Labelling and Packaging of Substances and Mixtures
3	<u>CAS Number</u> : Chemical Abstract Service Number, used by the American Chemical Society to uniquely identify a chemical.
5	<u>NFPA</u> : National Fire Protection Association. <u>NFPA FLAMMABILITY CLASSIFICATION</u> : The NFPA uses the flash point (F.I.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: F.I.P. below 73°F and BP below 100°F. Class IB: F.I.P. below 73°F and BP at or above 100°F. Class IC: F.I.P. at or above 73°F and BP at or above 100°F. Class II: F.I.P. at or above 100°F and below 140°F. Class IIIA: F.I.P. at or above 140°F and below 200°F. Class IIIB: F.I.P. at or above 200°F. <u>NFPA HAZARDOUS MATERIALS RATING</u> : This is a rating system used to summarize physical and health hazards to firefighters Blue = Health hazard; Red = Fire Hazard; Yellow = Reactivity Hazard. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
8	<u>ACGIH</u> : American Conference of Government Industrial Hygienists; <u>TWA</u> : Time-Weighted Average (over an 8-hour workday); <u>STEL</u> : Short-Term Exposure Limit (15-minute average, no more than 4 times daily and each exposure separated by one hour minimally); <u>C</u> : Ceiling Limit (concentration not to be exceeded in a work environment). <u>PEL</u> : Permissible Exposure Limit. <u>NIOSH</u> : National Institute of Occupational Safety and Health; <u>REL</u> : Recommended Exposure Limit; <u>IDLH</u> : Immediately Dangerous to Life and Health <u>ppm</u> : Parts per Million. <u>mg/m<sup>3</sup></u> : Milligrams per cubic meter. <u>BEI</u> : Biological Exposure Limit. <u>MAK</u> : Maximum Concentration Values in the Workplace; AIHA WEEL: AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; <u>OEL</u> : Occupational Exposure Limit.
9	<u>pH</u> : Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, a pH value of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. <u>FLASH POINT</u> : Temperature at which a liquid generates enough flammable vapors so that ignition may occur. <u>AUTOIGNITION TEMPERATURE</u> : Temperature at which spontaneous ignition occurs. <u>LOWER EXPLOSIVE LIMIT (LEL)</u> : The minimal concentration of flammable vapors in air which will sustain ignition. <u>UPPER EXPLOSIVE LIMIT (UEL)</u> : The maximum concentration of flammable vapors in air which will sustain ignition.
11	<u>CARCINOGENICITY STATUS</u> : NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. <u>TOXICOLOGY DATA</u> : LDxx or LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to assess the toxicity of chemical substances to humans. TDxx or TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.
12	<u>EC50</u> : Effect Concentration. <u>PBT or vPvB</u> : Persistent/ Bioaccumulative /Toxic; Very Persistent/ Very Bioaccumulative
13	<u>RCRA</u> : Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. <u>EPA RCRA Waste Codes</u> : Defined in 40 CFR Section 261.
15	<u>CERCLA</u> : Comprehensive Environmental Response, Compensation, and Liability Act. <u>SARA</u> : Superfund Amendments and Reauthorization Act. <u>TSCA</u> : Toxic Substances Control Act. <u>DSL/NDSL</u> : Domestic Substances List/Non-Domestic Substances List. <u>REACH</u> : European Union regulation concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals.
16	<u>HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING</u> : This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

# SAFETY DATA SHEET

This document is in compliance with requirements for Safety Data Sheets implemented under U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2024 and equivalent State Standards), guidelines from the United Nations Globally Harmonized System of Classification of Chemicals (GHS), the Canadian Workplace Hazardous Materials Information System (WHMIS) and Hazardous Products Regulations (HPR), and the European Union regulation on the Classification, Labelling and Packaging of Substances and Mixtures (EC No. 1272/2008, EU 2020/878). See section 16 for more information on national regulations.

## SECTION 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFICATION

- **PRODUCT NAME:** CTAB V2
- **PRODUCT CODE:** 806-00084-00

### 1.2 PRODUCT USE AND RESTRICTIONS

- **IDENTIFIED USE:** Kit component for protein sequencing process.
- **USES ADVISED AGAINST:** Procedures not related to the intended use of this product.
- **IDENTIFIED USERS:** For sale to, use and storage by personnel trained in handling product safely.

### 1.3 MANUFACTURER INFORMATION

- **MANUFACTURER/SUPPLIER:** Quantum SI, Inc.
- **ADDRESS:** 29 Business Park Dr., Suite C; Branford, CT; 06405
- **BUSINESS PHONE:** 866-688-7374 (8:00 am to 5:00 pm, Eastern Standard Time)
- **EMERGENCY PHONE:** +1- Chemtrec (US and Canada): +1-800-424-9300  
Outside US): +1-703- 527-3887
- **Email:** support@quantum-si.com

## SECTION 2: HAZARD IDENTIFICATION

### 2.1 HAZARD CLASSIFICATION (US OSHA, CANADIAN WHMIS, and EU CLP)

- Not classified as hazardous under pertinent national standards.

### 2.2 LABEL ELEMENTS (US OSHA, CANADIAN WHMIS, and EU CLP)

- **Hazard Pictograms:** Not applicable.
- **Signal Word:** Not applicable.
- **Hazard Statements:** Not applicable.
- **Precautionary Statements:** Not applicable.

### 2.3 OTHER PERTINENT DATA ON HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS

- **AQUATIC TOXICITY:** Aquatic Toxicity – Acute (Category 2); H402: Toxic to aquatic life. P273: Avoid release into the environment. P501: Dispose of contents/ container to an approved waste disposal plant.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 IDENTIFICATION OF HAZARDOUS SUBSTANCES IN PRODUCT

NAME	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w) <sup>1</sup>
Hexadecyltrimethyl-ammonium bromide	57-09-0	Acute toxicity – Oral (Category 4); Skin Irritation (Category 2); Serious Eye Damage (Category 1) Specific target organ toxicity -- Single exposure ( - Respiratory system (Category 3); Specific target organ toxicity - Repeated exposure (Gastrointestinal tract, Category 2); Aquatic toxicity – Acute (Category 1, M = 100), Chronic (Category 1, M = 1)	0.1-1%
The components of this product do not contribute health or physical hazards at the concentrations present.			Balance

<sup>1</sup> The exact composition is a trade secret. All required hazard and safety information has been provided for the products, per the regulations.

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

- BASIC FIRST AID BY EXPOSURE ROUTE:**

<u>AREA EXPOSED</u>	<u>TREATMENT</u>
---------------------	------------------

<b>Eye Contact:</b>	Flush with copious amounts of water for 15 minutes. "Roll" eyes during flush. Seek medical attention should any irritation develop.
---------------------	---

<b>Skin Contact:</b>	Flush area with warm, running water for several minutes. Seek medical attention should any irritation develop.
----------------------	--

<b>Inhalation:</b>	Obtain fresh air. Seek medical attention if irritation develops after exposure ends.
--------------------	--

<b>Ingestion:</b>	If conscious only: Rinse mouth with water. Do not induce vomiting. Contact a Poison Control Center or physician for instructions.
-------------------	---

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- ACUTE HEALTH EFFECTS:**

<u>AREA EXPOSED</u>	<u>EFFECTS</u>
---------------------	----------------

<b>Eye Contact:</b>	May cause eye irritation upon prolonged exposure.
---------------------	---

<b>Skin Contact:</b>	May cause skin irritation upon prolonged exposure.
----------------------	--

<b>Inhalation:</b>	Not anticipated to be a potential route of exposure.
--------------------	--

<b>Ingestion:</b>	Not anticipated to be a potential route of exposure.
-------------------	--

- CHRONIC HEALTH EFFECTS:** None known.

- TARGET ORGANS:** None known.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- GENERAL INFORMATION: For all exposures:** In case of accident, or if you feel unwell, seek medical advice immediately. Take this document and a copy of the label to the healthcare professional.

- RECOMMENDATIONS TO PHYSICIANS:** Treat symptomatically.

- MEDICAL CONDITIONS AGGRAVATED BY OVEREXPOSURE:** None known.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

- RECOMMENDED FIRE EXTINGUISHING MEDIA:** Water Spray, Dry Powder, Foam, Carbon Dioxide, or any other type.

- UNSUITABLE FIRE EXTINGUISHING MEDIA:** None.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- NFPA FLAMMABILITY CLASSIFICATION:**

NFPA Rating:



NFPA Hazard Classification: Not classified.

### 5.3 UNUSUAL HAZARDS IN FIRE SITUATIONS

<u>POTENTIAL HAZARD</u>	<u>DESCRIPTION FOR PRODUCT</u>
-------------------------	--------------------------------

<b>Decomposition:</b>	Generates irritating vapors, carbon monoxide, carbon dioxide, and compounds containing nitrogen and bromine.
-----------------------	--

<b>Incompatibilities:</b>	See Section 10 (Reactivity and Stability).
---------------------------	--

<b>Explosion Sensitivity to Mechanical Impact:</b>	Not applicable.
--	-----------------

<b>Explosion Sensitivity to Static Discharge:</b>	Not applicable.
---	-----------------

## SECTION 5: FIREFIGHTING MEASURES

### 5.4 ADVICE FOR FIREFIGHTERS

- Self-Contained Breathing Apparatus and full protective equipment for fire response should be worn in any situation. Move containers from fire area if it can be done without risk to personnel. Otherwise, use water spray to keep fire-exposed containers cool.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- **RESPONSE TO INCIDENTAL RELEASES:** Personnel who have received basic chemical safety training can generally handle small-scale releases. Gloves and safety glasses must be worn when cleaning-up spills. Use caution during clean-up; contaminated floors and items may be slippery.
- **RESPONSE TO NON-INCIDENTAL RELEASES:** Generally, releases of this product will be no larger than the loss of one shipment of material. Subsequently, personnel can follow the instructions for incidental releases.
- **RESPONSE PROCEDURES FOR ANY RELEASE:** Use damp sponge or polypad to carefully cleanse contaminated area or items. If appropriate, further clean contaminated area and equipment with soap and water solution, followed by a water rinse.

### 6.2 ENVIRONMENTAL PRECAUTIONS

- **IN CASE OF SPILL:** Collect spillage promptly. Avoid response actions that can cause a release of a significant amount of substance into the environment. Avoid accidental dispersal of spilled material into soil, waterways, and sewers.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

- **SPILL RESPONSE EQUIPMENT:** Polypad or sponge. Appropriate waste container.

### 6.4 REFERENCE TO OTHER SECTIONS

- See Section 8 (Exposure Controls/Personal Protection) for personal protective equipment recommendations.
- See Section 13 (Disposal Recommendations) for information on waste disposal.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

- **HYGIENE PRACTICES:** Follow good chemical hygiene practices. Do not smoke, drink, eat, or apply cosmetics in the chemical use area. Avoid inhalation of mists, sprays, or aerosols. Use in well-ventilated area. Avoid contact with skin or eyes. Remove contaminated clothing promptly. Clean up spilled product immediately.
- **HANDLING PRACTICES:** Employees must be appropriately trained to use this product safely as needed. Keep containers closed when not in use.

### 7.2 CONDITIONS FOR SAFE STORAGE

- **STORAGE PRACTICES:** Ensure all containers are correctly labeled. Store containers away from direct sunlight, and sources of intense heat. Store this product away from incompatible chemicals. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged. Empty containers may contain residual material; therefore, empty containers should be handled with care.
- **INCOMPATIBILITIES:** See Section 10 (Stability and Reactivity).

### 7.3 SPECIFIC END USES

- This product is for use in research and development laboratories by trained laboratory personnel.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 CONTROL PARAMETERS

- **AIRBORNE EXPOSURE LIMITS:**
  - **U.S:** No airborne occupational exposure limits have been established.
  - **Canada:** No airborne occupational exposure limits have been established.
  - **EU:** No airborne occupational exposure limits have been established.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

- **BIOLOGICAL OCCUPATIONAL EXPOSURE LIMITS:** None established.
- **DERIVED NO EFFECTS LEVEL:**
  - **Hexadecyltrimethylammonium bromide:** (Workers) Acute - local effects, inhalation= 0.05 mg/m<sup>3</sup>. Long-term - systemic effects, dermal = 0.4 mg/kg body-weight/day
- **PREDICTED NO EFFECT CONCENTRATION:**
  - **Hexadecyltrimethylammonium bromide:** Marine Water = 0.022 µg/l; Fresh Water = 0.022 µg/l; Soil 0.21 mg/kg dry-weight; Sewage treatment plant = 0.19 mg/l.

### 8.2 EXPOSURE CONTROLS

- **GENERAL GUIDELINES:** This product is intended for use by trained personnel as part of a kit.
- **ENGINEERING CONTROLS:** Ensure the area has adequate ventilation to ensure minimal inhalation of mists or sprays occurs. Eye wash stations and safety showers should be readily available.
- **RESPIRATORY PROTECTION:** None needed under normal circumstances of use.
- **HAND PROTECTION:** None typically needed for anticipated use. Neoprene or nitrile gloves are recommended if skin contact can occur (e.g., spill clean-up). Ensure gloves are intact prior to use.
- **EYE PROTECTION:** Safety glasses are recommended if splash or spray can occur during use (e.g., during refilling of unit).
- **BODY PROTECTION:** Body protection suitable to task is recommended (e.g., laboratory coat).
- **OTHER PROTECTIVE MEASURES:** Wash hands during breaks and at the end of handling the material. Immediately remove any contaminated clothing.

### 8.3 ENVIRONMENTAL EXPOSURE CONTROLS

- Minimize the generation of mists, sprays, or aerosols while using this product. Avoid release into the environment.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARANCE AND DISTINGUISHING CHARACTERISTICS:**

<u>PROPERTY</u>	<u>DATA</u>
State:	Liquid
Color:	Colorless
Odor:	Odorless
Odor Threshold:	Not determined
pH:	Not determined.

- **PHYSICAL DATA:**

<u>PROPERTY</u>	<u>DATA</u>
Melting Point/Freezing Point:	Not determined.
Initial Boiling Point/Boiling Range:	Greater or equal to 100 °C (212 °F)
Flash Point:	Not applicable.
Evaporation Rate (Water = 1):	Approximately 1.0
Flammability:	Not applicable.
Upper/Lower Explosion Limits	Not applicable.
Vapor Pressure:	Less than or equal to 23 hPa (17.3 mmHg)
Vapor Density	Not determined.
Relative Density at 20 °C (68 °F)	Approximately 1.01 g.cm <sup>3</sup> ; (8.44 lb./gal)
Solubility:	Totally soluble in water
Partition Coefficient/n-octanol/water:	Not determined
Autoignition Temperature:	Not applicable.
Decomposition Temperature:	Not determined.
Kinematic Viscosity:	Not determined.
Particle Characteristics:	Not applicable.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES (Continued)

## 9.2 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- **Information regarding Physical Hazard Classes** This product is not classified under any physical hazard class.
- **Other Safety Characteristics** Not applicable

## 9.3 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- **VOC content:** 0.00%; 0.0 g/L

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY AND CHEMICAL STABILITY

- The product is not reactive under typical conditions of use or handling.
- Normally stable under standard temperatures and pressures.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS (INCLUDING THOSE ASSOCIATED WITH FORESEEABLE EMERGENCY)

- Product is not self-reactive, water-reactive, or air-reactive; it will not undergo hazardous polymerization.

### 10.3 CONDITIONS TO AVOID

- Avoid contact with incompatible chemicals and adverse storage conditions.

### 10.4 INCOMPATIBLE MATERIALS

- Strong oxidizing agents.

### 10.5 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include oxides of carbon, compounds containing nitrogen and bromine, and irritating vapors.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON ACUTE TOXICITY

- **PRODUCT TOXICOLOGY DATA:** The following are calculated estimates for the product:
  - Acute Toxicity Estimate (Oral) > 5000 mg/kg
  - Acute Toxicity Estimate (Dermal) > 5000 mg/kg
- **COMPONENT TOXICOLOGY DATA:** The following data are available for components of this product:
  - Hexadecyltrimethylammonium Bromide**
  - LD50 (Oral, Rat): 410 mg/kg
  - LD50 (Dermal, Rabbit): 2150 mg/kg
- **DEGREE OF IRRITATION:** This product is not anticipated to cause skin or eye irritation.
- **SENSITIZATION:** This product does not contain any compound reported to as a skin or respiratory sensitizer.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** See Section 2 (Hazard Information) and Section 4 (First-Aid Measures) for additional details.
  - **Eyes:** May cause eye irritation upon prolonged exposure.
  - **Skin:** May cause skin irritation upon prolonged exposure.
  - **Inhalation:** Not anticipated to be a significant route of occupational exposure.
  - **Ingestion:** Not anticipated to be a significant route of occupational exposure.

### 11.2 INFORMATION ON CHRONIC TOXICITY

- **CARCINOGENICITY STATUS:** This product is not listed as a carcinogen by NTP, IARC, or OSHA.
- **REPRODUCTIVE TOXICITY INFORMATION:** Not applicable.
- **MUTAGENIC EFFECTS** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

## SECTION 11: TOXICOLOGICAL INFORMATION (Continued)

### 11.3 OTHER USEFUL TOXICOLOGY INFORMATION

- **ENDOCRINE-DISRUPTING PROPERTIES:** Not applicable.
- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 ENVIRONMENTAL TOXICITY

- The product is classified as Aquatic Toxicity – Acute (Category 2): Toxic to aquatic life.
- The following aquatic toxicity data are available for components of this product:

#### **Hexadecyltrimethylammonium Bromide:**

Freshwater Algae: EC50: = 0.09 mg/L, 96 hours (Pseudokirchneriella subcapitata)

Microtox: EC50 = 9.84 mg/L, 5 minutes (Photobacterium phosphoreum)

Fish: LC50 = 0.3 mg/l, 96 hours (Danio rerio)

Aquatic Invertebrates: EC50 = 0.03 mg/l - 48 hours, (Daphnia magna)

### 12.2 PERSISTENCE AND DEGRADABILITY

- When released into the soil, the components of this product are expected to biodegrade, dissipate in soils via oxidation, or otherwise chemically degrade or photo-decompose via solar radiation.

### 12.3 BIOACCUMULATIVE POTENTIAL

- This product is not anticipated to bioaccumulate significantly.
- The following data is available for the components of this product:
  - **Hexadecyltrimethylammonium bromide:** Low potential for bioaccumulation (Log Kow is 3.18).

### 12.4 MOBILITY IN SOIL

- Based on its total solubility in water, this product is expected to have significant mobility in soil.

### 12.5 RESULTS OF PBT AND vPvB ASSESSMENT

- Not classified as PBT or vPvB.

### 12.6 ENDOCRINE DISRUPTING PROPERTIES

- None reported.

### 12.7 OTHER ADVERSE ENVIRONMENTAL EFFECTS

- None reported.

## SECTION 13: DISPOSAL CONSIDERATION

### 13.1 WASTE TREATMENT METHODS

- Dispose of in accordance with local, state, and national regulations.

### 13.2 DISPOSAL CONSIDERATIONS

- **EPA RCRA WASTE CODE:** Not applicable to wastes consisting only of this product.
- **SEWAGE DISPOSAL:** Waste should not be disposed of by release to sewers.

### 13.3 DISPOSITION OF EMPTY CONTAINERS

- Empty containers may contain residual material; therefore, empty containers should be handled with care.
- Empty containers should be discarded properly.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS

- **DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION						

- **CANADIAN TRANSPORTATION INFORMATION:** This product is not regulated by Transport Canada as dangerous good under Canadian transportation standards.
- **EUROPEAN TRANSPORT CLASSIFICATION BY ROAD (ADR)/RAIL (RID):** Product is not regulated as a dangerous good.
- **IATA DESIGNATION:** Product is not regulated as a dangerous good by the International Air Transport Association.
- **IMO DESIGNATION:** Product is not regulated as a dangerous good by the International Maritime Organization.

### 14.2 ENVIRONMENTAL HAZARDS

- This product is not classified as a Marine Pollutant for the purposes of transportation.

### 14.3 SPECIAL PRECAUTIONS FOR TRANSPORTERS

- None established.

### 14.4 TRANSPORT IN BULK

- **ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:** Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1 OTHER IMPORTANT U.S. SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- **US TOXICITY SUBSTANCES CONTROL INVENTORY:** Hexadecyltrimethylammonium bromide is listed.
- **U.S. SARA THRESHOLD PLANNING QUANTITY:** Not applicable.
- **U.S. SARA HAZARD CATEGORIES (SECTION 311/312, 40 CFR 370-21):** Not applicable.
- **U.S. CERCLA REPORTABLE QUANTITY (RQ):** Not applicable to the product, based on composition and volume.
- **U.S. SARA TITLE 313:** 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
- **US CLEAN AIR ACT (SECTION 112r):** Not applicable.

### 15.2 OTHER IMPORTANT U.S. STATE REGULATIONS FOR COMPONENTS

- **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** Not applicable.
- **NEW JERSEY RIGHT TO KNOW LIST HAZARDOUS SUBSTANCES LIST:** No product ingredient is listed.
- **NEW JERSEY ENVIRONMENTAL SUBSTANCES LIST:** No product ingredient is listed.
- **PENNSYLVANIA RIGHT-TO-KNOW LIST:** No product ingredient is listed.

### 15.3 CANADIAN AND EU SAFETY, HEALTH, AND ENVIRONMENTAL REGULATIONS

- **ADDITIONAL WHMIS INFORMATION:** This SDS contains all the required elements under the Canadian Hazardous Products regulations (SOR 2022-272)..
- **CANADIAN DSL/NDL INVENTORY STATUS:** All components of this product are listed or exempted.
- **CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:** The components of this product are not on the CEPA Priority Substances Lists.
- **E.U. REACH:** Contains no substance on the REACH candidate list. Contains no REACH Annex XIV substances. REACH (1907/2006). Contains no substance with REACH Restrictions.

### 15.4 CHEMICAL SAFETY ASSESSMENT

- **ASSESSMENT INFORMATION:** No chemical safety assessment has been carried out for Hexadecyltrimethylammonium bromide.

## SECTION 16: OTHER INFORMATION

### 16.1 INDICATION OF CHANGE

- **DATE OF PREPARATION:** November 17, 2024
- **SUPERCEDES:** Not applicable.
- **CHANGE INDICATED:** New product.

### 16.2 HAZARDOUS MATERIALS SYSTEM RATING

Health	0	<i>(Personal Protective Equipment Rating: Occupational Use situations: Refer to section 8 for guidance on the selection of personal production.</i>
Flammability	0	
Physical Hazard	0	
Protective Equipment	*	

### 16.3 DEFINITIONS

#### SECTION EXPLANATION OF TERMS/ABBREVIATIONS

ALL	OSHA: U.S. Federal Occupational Safety and Health Administration. WHMIS: Canadian Workplace Hazardous Materials Standard. GHS: Globally Harmonized System of Classification of Chemical Substances. HCS: Hazard Communication Standard (U.S.). HPR: Hazardous Products Regulations (Canada). EU: European Union. CLP: Union Classification, Labelling and Packaging of Substances and Mixtures
3	CAS Number: Chemical Abstract Service Number, used by the American Chemical Society to uniquely identify a chemical.
5	NFPA: National Fire Protection Association. NFPA FLAMMABILITY CLASSIFICATION: The NFPA uses the flash point (F.I.P.) and boiling point (BP) to classify flammable or combustible liquids. Class IA: F.I.P. below 73°F and BP below 100°F. Class IB: F.I.P. below 73°F and BP at or above 100°F. Class IC: F.I.P. at or above 73°F and BP at or above 100°F. Class II: F.I.P. at or above 100°F and below 140°F. Class IIIA: F.I.P. at or above 140°F and below 200°F. Class IIIB: F.I.P. at or above 200°F. NFPA HAZARDOUS MATERIALS RATING: This is a rating system used to summarize physical and health hazards to firefighters Blue = Health hazard; Red = Fire Hazard; Yellow = Reactivity Hazard. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.
8	ACGIH: American Conference of Government Industrial Hygienists; TWA: Time-Weighted Average (over an 8-hour work day); STEL: Short-Term Exposure Limit (15-minute average, no more than 4 times daily and each exposure separated by one hour minimally); C: Ceiling Limit (concentration not to be exceeded in a work environment). PEL: Permissible Exposure Limit. NIOSH: National Institute of Occupational Safety and Health; REL: Recommended Exposure Limit; IDLH: Immediately Dangerous to Life and Health ppm: Parts per Million. mg/m <sup>3</sup> : Milligrams per cubic meter. BEI: Biological Exposure Limit. MAK: Maximum Concentration Values in the Workplace; AIHA WEEL: AIHA WEEL – American Industrial Hygiene Association Workplace Environment Exposure Levels; OEL: Occupational Exposure Limit.
9	pH: Scale (0 to 14) used to rate the acidity or alkalinity of aqueous solutions. For example, a pH value of 0 indicates a strongly acidic solution, a pH value of 7 indicates a neutral solution, and a pH value of 14 indicates an extremely basic solution. FLASH POINT: Temperature at which a liquid generates enough flammable vapors so that ignition may occur. AUTOIGNITION TEMPERATURE: Temperature at which spontaneous ignition occurs. LOWER EXPLOSIVE LIMIT (LEL): The minimal concentration of flammable vapors in air which will sustain ignition. UPPER EXPLOSIVE LIMIT (UEL): The maximum concentration of flammable vapors in air which will sustain ignition.
11	CARCINOGENICITY STATUS: NTP: National Toxicology Program. IARC: International Agency for Research on Cancer. TOXICOLOGY DATA: LDxx or LCxx: The Lethal Dose or Lethal Concentration of a substance which will be fatal to a given percentage (xx) of exposed test animals by the designate route of administration. This value is used to assess the toxicity of chemical substances to humans. TDxx or TCxx: The Toxic Dose or Toxic Concentration of a substance which will cause an adverse effect to a given percentage (xx) of exposed test animals by the designate route of administration.
12	EC50: Effect Concentration. PBT or vPvB: Persistent/ Bioaccumulative /Toxic; Very Persistent/ Very Bioaccumulative
13	RCRA: Resource Conservation and Recovery Act. The regulations promulgated under this act under Act are found in 40 CFR, Sections 260 ff, and define the requirements of hazardous waste generation, transport, treatment, storage, and disposal. EPA RCRA Waste Codes: Defined in 40 CFR Section 261.
15	CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act. SARA: Superfund Amendments and Reauthorization Act. TSCA: Toxic Substances Control Act. DSL/NDL: Domestic Substances List/Non-Domestic Substances List. REACH: European Union regulation concerning the Registration, Evaluation, Authorization, and Restriction of Chemicals.
16	HAZARDOUS MATERIALS IDENTIFICATION SYSTEM RATING: This is a rating system used by industry to summarize physical and health hazards to chemical users and was originally developed by the National Paint and Coating Association. 0 = No Significant Hazard. 1 = Slight Hazard. 2 = Moderate Hazard. 3 = Severe Hazard. 4 = Extreme Hazard.

# SAFETY DATA SHEET

This document is in compliance with requirements for Safety Data Sheets implemented under U.S. Federal Occupational Safety and Health Administration Hazard Communication Standard (29 CFR 1910.1200, as updated in 2024 and equivalent State Standards), guidelines from the United Nations Globally Harmonized System of Classification of Chemicals (GHS). See section 16 for more information on national regulations.

## SECTION 1: IDENTIFICATION

### 1.1 PRODUCT IDENTIFICATION

- **PRODUCT NAME:** LYS C
- **PRODUCT CODE:** 806-00022-00

### 1.2 PRODUCT USE AND RESTRICTIONS

- **IDENTIFIED USE:** Kit component for protein sequencing process.
- **USES ADVISED AGAINST:** Procedures not related to the intended use of this product.
- **IDENTIFIED USERS:** For sale to, use, and storage by personnel trained in handling product safely.

### 1.3 MANUFACTURER INFORMATION

- **MANUFACTURER/SUPPLIER:** Quantum SI, Inc.
- **ADDRESS:** 29 Business Park Dr., Suite C; Branford, CT; 06405
- **BUSINESS PHONE:** 866-688-7374 (8:00 am to 5:00 pm, Eastern Standard Time)
- **EMERGENCY PHONE:** +1- Chemtrec (US and Canada): +1-800-424-9300  
Outside US): +1-703- 527-3887
- **Email:** support@quantum-si.com

## SECTION 2: HAZARD IDENTIFICATION

### 2.1 HAZARD CLASSIFICATION (US OSHA, CANADIAN WHMIS, and EU CLP)

- Not classified as hazardous under pertinent national standards.

### 2.2 LABEL ELEMENTS (US OSHA, CANADIAN WHMIS, and EU CLP)

- **Hazard Pictograms:** Not applicable.
- **Signal Word:** Not applicable.
- **Hazard Statements:** Not applicable.
- **Precautionary Statements:** Not applicable.

### 2.3 OTHER PERTINENT DATA ON HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS

- Not applicable.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 IDENTIFICATION OF HAZARDOUS SUBSTANCES IN PRODUCT

NAME	CAS NUMBER	GHS HAZARD CLASSIFICATION FOR COMPONENT	% (w/w) <sup>1</sup>
Lysyl endopeptidase	78642-25-8	Non-hazardous enzyme.	=<100%
N/A	N/A	N/A	N/A

<sup>1</sup> The exact composition is a trade secret. All required hazard and safety information has been provided for the products, per the regulations.

## SECTION 4: FIRST AID MEASURES

### 4.1 DESCRIPTION OF FIRST AID MEASURES

- **BASIC FIRST AID BY EXPOSURE ROUTE:**

<u>AREA EXPOSED</u>	<u>TREATMENT</u>
<b>Eye Contact:</b>	Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
<b>Skin Contact:</b>	Wash skin with soap and water.
<b>Inhalation:</b>	Remove to fresh air.
<b>Ingestion:</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

### 4.2 MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED

- No information available.

### 4.3 INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

- Treat symptomatically.

## SECTION 5: FIREFIGHTING MEASURES

### 5.1 EXTINGUISHING MEDIA

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### 5.2 SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE

- No information available

### 5.3 UNUSUAL HAZARDS IN FIRE SITUATIONS

<u>POTENTIAL HAZARD</u>	<u>DESCRIPTION FOR PRODUCT</u>
<b>Explosion Sensitivity to Mechanical Impact:</b>	Not applicable.
<b>Explosion Sensitivity to Static Discharge:</b>	Not applicable.

### 5.4 ADVICE FOR FIREFIGHTERS

- As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1 PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT, AND EMERGENCY PROCEDURES

- Ensure adequate ventilation, especially in confined areas.

### 6.2 ENVIRONMENTAL PRECAUTIONS

- To be careful not discharged to the environment without being properly handled waste water contaminated.

### 6.3 METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

- Use personal protective equipment as required. Cover powder spill with plastic sheet or tarp to minimize spreading and keep powder dry. Take up mechanically, placing in appropriate containers for disposal. Avoid creating dust. Clean contaminated surface thoroughly.

## SECTION 7: HANDLING AND STORAGE

### 7.1 PRECAUTIONS FOR SAFE HANDLING

- **TECHNICAL MEASURES:** Avoid contact with strong oxidizing agents.
- **PROTECTIVE PRACTICES:** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 7: HANDLING AND STORAGE (Continue)

### 7.2 CONDITIONS FOR SAFE STORAGE

- **STORAGE PRACTICES:** Container protected from light, and store tightly closed in freezer (-20°C).
- **PACKAGING MATERIALS:** Glass
- **INCOMPATIBILITIES:** Strong oxidizing agents.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 CONTROL PARAMETERS: None established.

### 8.2 EXPOSURE CONTROLS

- **GENERAL GUIDELINES:** This product is intended for use by trained personnel as part of a kit.
- **ENGINEERING CONTROLS:** In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and hand and eye-wash facility. And display their position clearly.
- **RESPIRATORY PROTECTION:** Dust mask.
- **HAND PROTECTION:** Protection gloves
- **EYE PROTECTION:** Protective eyeglasses or chemical safety goggles
- **BODY PROTECTION:** Body protection suitable to task is recommended (e.g., laboratory coat).
- **OTHER PROTECTIVE MEASURES:** Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

- **APPEARANCE AND DISTINGUISHING CHARACTERISTICS:**

<u>PROPERTY</u>	<u>DATA</u>
State:	Solid
Color:	Not determined
Odor:	Not determined
Odor Threshold:	Not determined
pH:	7.5 - 8.5

- **PHYSICAL DATA:**

<u>PROPERTY</u>	<u>DATA</u>
Melting Point/Freezing Point:	Not determined
Initial Boiling Point/Boiling Range:	Not determined
Flash Point:	Not determined
Evaporation Rate (Water = 1):	Not determined
Flammability:	Not determined
Upper/Lower Explosion Limits	Not determined
Vapor Pressure:	Not determined
Vapor Density	Not determined
Relative Density at 20 °C (68 °F)	Not determined
Solubility:	Totally soluble in water
Partition Coefficient/n-octanol/water:	Not determined
Autoignition Temperature:	Not determined
Decomposition Temperature:	Not determined
Kinematic Viscosity:	Not determined
Particle Characteristics:	Not determined

### 9.2 INFORMATION RELEVANT TO PHYSICAL HAZARD CLASSIFICATION

- **Information regarding Physical Hazard Classes** This product is not classified under any physical hazard class.
- **Other Safety Characteristics** Not applicable

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 REACTIVITY AND CHEMICAL STABILITY

- May be altered by light.

### 10.2 POSSIBILITY OF HAZARDOUS REACTIONS (INCLUDING THOSE ASSOCIATED WITH FORESEEABLE EMERGENCY)

- No data available.

### 10.3 CONDITIONS TO AVOID

- Extremes of temperature and direct sunlight

### 10.4 INCOMPATIBLE MATERIALS

- Strong oxidizing agents.

### 10.5 HAZARDOUS DECOMPOSITION PRODUCTS

- Products of thermal decomposition include carbon monoxide and carbon dioxide.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 INFORMATION ON ACUTE TOXICITY

- **PRODUCT TOXICOLOGY DATA:** No data available.
- **COMPONENT TOXICOLOGY DATA:** No data available.
- **DEGREE OF IRRITATION:** No data available.
- **SENSITIZATION:** No data available.
- **REVIEW OF ACUTE SYMPTOMS AND EFFECTS BY ROUTE OF EXPOSURE:** No data available.
- **CARCINOGENICITY STATUS:** : No data available
- **REPRODUCTIVE TOXICITY INFORMATION:** Not applicable.
- **MUTAGENIC EFFECTS** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE:** Not applicable.
- **SPECIFIC TARGET ORGAN TOXICITY – REPEATED EXPOSURE:** Not applicable.
- **ASPIRATION HAZARD:** Not applicable.

### 11.3 OTHER USEFUL TOXICOLOGY INFORMATION

- **ENDOCRINE-DISRUPTING PROPERTIES:** Not applicable.
- **TOXICOLOGICALLY SYNERGISTIC PRODUCTS:** None known.
- **ADDITIONAL TOXICOLOGY:** Not applicable.

## SECTION 12: ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL TOXICITY : No information available.

12.2 PERSISTENCE AND DEGRADABILITY: No information available.

12.3 BIOACCUMULATIVE POTENTIAL: No information available.

12.4 MOBILITY IN SOIL: No information available.

12.5 RESULTS OF PBT AND vPvB ASSESSMENT : No information available.

12.6 ENDOCRINE DISRUPTING PROPERTIES: No information available.

12.7 OTHER ADVERSE ENVIRONMENTAL EFFECTS: No information available.

## SECTION 13: DISPOSAL CONSIDERATION

### 13.1 WASTE TREATMENT METHODS

- Dispose of in accordance with local, state, and national regulations.

## SECTION 14: TRANSPORT INFORMATION

### 14.1 HAZARDOUS MATERIALS TRANSPORTATION REGULATIONS

- **IATA DESIGNATION:** Product is not regulated as a dangerous good by the International Air Transport Association.
- **IMO DESIGNATION:** Product is not applicable by the International Maritime Organization.
- **DEPARTMENT OF TRANSPORTATION HAZARDOUS MATERIALS SHIPPING REGULATIONS:**

UN/NA Number	Proper Shipping Name	Packing Group	Hazard Class	Label	North American Emergency Response Guide #	Marine Pollutant Status
NOT REGULATED AS DANGEROUS GOODS FOR TRANSPORTATION						

- **CANADIAN TRANSPORTATION INFORMATION:** This product is not regulated by Transport Canada as dangerous
- **EUROPEAN TRANSPORT CLASSIFICATION BY ROAD (ADR)/RAIL (RID):** Product is not regulated as a dangerous good.

### 14.2 ENVIRONMENTAL HAZARDS

- Not applicable.

### 14.3 SPECIAL PRECAUTIONS FOR TRANSPORTERS

- None established.

### 14.4 TRANSPORT IN BULK

- **ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:** Not applicable.

## SECTION 15: REGULATORY INFORMATION

### 15.1 U.S. FEDERAL REGULATIONS

- **U.S. CERCLA:** This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.
- **CWA (Clean Water Act):** This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)
- **U.S. SARA TITLE 313:** Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
- **U.S. SARA 311/312:** Not applicable.

### 15.2 U.S. STATE REGULATIONS FOR COMPONENTS

- **CALIFORNIA SAFE DRINKING WATER ACT (PROPOSITION 65) STATUS:** This product does not contain any chemicals regulated by Proposition 65.
- **EPA Pesticide Registration Number:** Not applicable

## SECTION 16: OTHER INFORMATION

### 16.1 INDICATION OF CHANGE

- **DATE OF PREPARATION:** November 27, 2024
- **SUPERCEDES:** Not applicable.
- **CHANGE INDICATED:** New product.