

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/cm³

· 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)

· Information with regard to physical hazard classes	
· Explosives	Non-Regulated Material
· Flammable gases	Non-Regulated Material
· Aerosols	Non-Regulated Material
· Oxidising gases	Non-Regulated Material
· Gases under pressure	Non-Regulated Material
· Flammable liquids	Non-Regulated Material
· Flammable solids	Non-Regulated Material
· Self-reactive substances and mixtures	Non-Regulated Material
· Pyrophoric liquids	Non-Regulated Material
· Pyrophoric solids	Non-Regulated Material
· Self-heating substances and mixtures	Non-Regulated Material
· Substances and mixtures, which emit flammable gases in contact with water	Non-Regulated Material
· Oxidising liquids	Non-Regulated Material
· Oxidising solids	Non-Regulated Material
· Organic peroxides	Non-Regulated Material
· Corrosive to metals	Non-Regulated Material
· Desensitised explosives	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:** CTAB
- **Product number:** 806-00042-00
- **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**
Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.
- **2.2 Label elements**
- **Hazard pictograms** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:**
H412 Harmful to aquatic life with long lasting effects.
- **Precautionary Statements:**
P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read carefully and follow all instructions.
P273 Avoid release to the environment.
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.

(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: CTAB

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous components:

CAS: 57-09-0	cetrimonium, salts	≤2.5%
EINECS: 200-311-3	⚠ STOT RE 2, H373; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410;	
RTECS: BQ 7875000	⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	

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.

Wash with soap and water.

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:

Do not induce vomiting without medical advice.

If vomiting occurs, the head should be kept low so that the vomit does not enter the lungs (aspiration). Once the vomiting ceases, place the person in the recovery position with the legs slightly raised.

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.

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

For safety reasons unsuitable extinguishing agents: No further relevant information.

5.2 Special hazards arising from the substance or mixture:

The combustion of the chemical products or containers may form toxic and irritating gases such as carbon monoxide (CO), carbon dioxide (CO₂), Nitrogen oxides (NO_x) and Hydrogen bromide gas. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire.

(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: CTAB

(Contd. of page 2)

· 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:

Inform respective authorities in case of seepage into water course or sewage system.

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.

· 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.

(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: CTAB

(Contd. of page 3)

- **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**
Keep away from drains, surface and ground waters.
Avoid release into the environment.

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:

1.0117 g/cm³

· Relative density:

Not determined.

· Vapour density:

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: CTAB

(Contd. of page 4)

· 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.

· Information with regard to physical hazard classes

· Explosives

Non-Regulated Material

· Flammable gases

Non-Regulated Material

· Aerosols

Non-Regulated Material

· Oxidising gases

Non-Regulated Material

· Gases under pressure

Non-Regulated Material

· Flammable liquids

Non-Regulated Material

· Flammable solids

Non-Regulated Material

· Self-reactive substances and mixtures

Non-Regulated Material

· Pyrophoric liquids

Non-Regulated Material

· Pyrophoric solids

Non-Regulated Material

· Self-heating substances and mixtures

Non-Regulated Material

· Substances and mixtures, which emit flammable gases in contact with water

Non-Regulated Material

· Oxidising liquids

Non-Regulated Material

· Oxidising solids

Non-Regulated Material

· Organic peroxides

Non-Regulated Material

· Corrosive to metals

Non-Regulated Material

· Desensitised explosives

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:

Reacts with oxidising agents.

In contact with nitrites, nitrates, nitrous acid possible liberation of nitrosamines.

· 10.4 Conditions to avoid:

Heat, flame and ignition sources.

Incompatible Materials

· **10.5 Incompatible materials:** Strong oxidizing agents.

(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: CTAB

(Contd. of page 5)

· **10.6 Hazardous decomposition products:**

Thermal decomposition can release carbon monoxide (CO) and carbon dioxide (CO₂), Nitrogen oxides (NO_x) and Hydrogen bromide gas.

* **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:**

57-09-0 cetrimonium, salts

Oral	LD50	410 mg/kg (Rat)
	LD50 Oral	1,550 ml/kg (Rat)
Dermal	LD50	2,150 mg/kg (rabbit)

· **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:**

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

57-09-0 cetrimonium, salts

EC50	0.037 mg/l (Daphnia)
------	----------------------

· **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 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: CTAB

(Contd. of page 6)

· **12.7 Other adverse effects**

· **Remark:** Harmful to fish

· **Additional ecological information:**

· **General notes:**

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Harmful to aquatic organisms

Water hazard class 2 (German Regulation) (Self-assessment): 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

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.

(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: CTAB

(Contd. of page 7)

· **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. 4: Acute toxicity – Category 4

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

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

· *** 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:** ISA
- **Product number:** 806-00020-00
- **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
- **Uses advised against** Food, drug, pesticide or biocidal product use.
- **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 of substances listed below with nonhazardous additions.

· **Dangerous components:**

952234-37-6	1H-Imidazole-1-sulfonyl Azide Hydrochloride Salt	<5%
-------------	--	-----

- **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 3 (replaces version 2)

Revision: 17.01.2024

Trade name: ISA

(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:**

Rinse mouth with water.
Seek immediate medical attention.
Never give anything by mouth to an unconscious person.
Call for a doctor immediately.

- **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** Treat symptomatically.

* SECTION 5: Firefighting measures

- **5.1 Extinguishing media**

- **Suitable extinguishing agents:**

Use fire extinguishing methods suitable to surrounding conditions.
CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **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**

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).
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.

(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: ISA

(Contd. of page 2)

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:** 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.
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.

(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: ISA

(Contd. of page 3)

· Boiling point or initial boiling point and boiling range	Not determined.
· 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	9-11
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Fully miscible.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure:	Not determined.
· Density and/or relative density	
· Density:	Not determined.
· 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.
· Information with regard to physical hazard classes	
· Explosives	Non-Regulated Material
· Flammable gases	Non-Regulated Material
· Aerosols	Non-Regulated Material
· Oxidising gases	Non-Regulated Material
· Gases under pressure	Non-Regulated Material
· Flammable liquids	Non-Regulated Material
· Flammable solids	Non-Regulated Material
· Self-reactive substances and mixtures	Non-Regulated Material
· Pyrophoric liquids	Non-Regulated Material
· Pyrophoric solids	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: ISA

(Contd. of page 4)

· Self-heating substances and mixtures	Non-Regulated Material
· Substances and mixtures, which emit flammable gases in contact with water	Non-Regulated Material
· Oxidising liquids	Non-Regulated Material
· Oxidising solids	Non-Regulated Material
· Organic peroxides	Non-Regulated Material
· Corrosive to metals	Non-Regulated Material
· Desensitised explosives	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:** Strong oxidizing agents.
- **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.

(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: ISA

(Contd. of page 5)

· **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:**

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.

(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: ISA

(Contd. of page 6)

· 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

· *** 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)

· 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:	Not determined.
· Density and/or relative density	
· Density:	Not determined.
· 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.
· Information with regard to physical hazard classes	
· Explosives	Non-Regulated Material
· Flammable gases	Non-Regulated Material
· Aerosols	Non-Regulated Material
· Oxidising gases	Non-Regulated Material
· Gases under pressure	Non-Regulated Material
· Flammable liquids	Non-Regulated Material
· Flammable solids	Non-Regulated Material
· Self-reactive substances and mixtures	Non-Regulated Material
· Pyrophoric liquids	Non-Regulated Material
· Pyrophoric solids	Non-Regulated Material
· Self-heating substances and mixtures	Non-Regulated Material
· Substances and mixtures, which emit flammable gases in contact with water	Non-Regulated Material
· Oxidising liquids	Non-Regulated Material
· Oxidising solids	Non-Regulated Material
· Organic peroxides	Non-Regulated Material
· Corrosive to metals	Non-Regulated Material
· Desensitised explosives	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 +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)

· 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:	Not determined.
· 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.
· Information with regard to physical hazard classes	
· Explosives	Non-Regulated Material
· Flammable gases	Non-Regulated Material
· Aerosols	Non-Regulated Material
· Oxidising gases	Non-Regulated Material
· Gases under pressure	Non-Regulated Material
· Flammable liquids	Non-Regulated Material
· Flammable solids	Non-Regulated Material
· Self-reactive substances and mixtures	Non-Regulated Material
· Pyrophoric liquids	Non-Regulated Material
· Pyrophoric solids	Non-Regulated Material
· Self-heating substances and mixtures	Non-Regulated Material
· Substances and mixtures, which emit flammable gases in contact with water	Non-Regulated Material
· Oxidising liquids	Non-Regulated Material
· Oxidising solids	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)

- | | |
|----------------------------------|------------------------|
| · Organic peroxides | Non-Regulated Material |
| · Corrosive to metals | Non-Regulated Material |
| · Desensitised explosives | 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 +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)

· 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:	1.0012 g/cm ³
· 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.
· Information with regard to physical hazard classes	
· Explosives	Non-Regulated Material
· Flammable gases	Non-Regulated Material
· Aerosols	Non-Regulated Material
· Oxidising gases	Non-Regulated Material
· Gases under pressure	Non-Regulated Material
· Flammable liquids	Non-Regulated Material
· Flammable solids	Non-Regulated Material
· Self-reactive substances and mixtures	Non-Regulated Material
· Pyrophoric liquids	Non-Regulated Material
· Pyrophoric solids	Non-Regulated Material
· Self-heating substances and mixtures	Non-Regulated Material
· Substances and mixtures, which emit flammable gases in contact with water	Non-Regulated Material
· Oxidising liquids	Non-Regulated Material
· Oxidising solids	Non-Regulated Material
· Organic peroxides	Non-Regulated Material
· Corrosive to metals	Non-Regulated Material
· Desensitised explosives	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