

Safety Data Sheet

according to Regulation (EC) No 1907/2006 (REACH)

Trade name: Total Collagen Assay Kit Component

Product No: QZBTOTCOL Assay Buffer

Print date:

Version: 1.1 / EN

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Revision date: 15FEB2023

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

1.1 Product identifiers

Product name: Assay Buffer; part of 'Total Collagen Assay Kit'

Catalog number: QZBTOTCOL – Assay Buffer

Brand: QuickZyme Biosciences

Index-No.: not applicable

Cas-No.: not applicable

EC-No.: not applicable

Brand: QuickZyme Biosciences

Reach number: No registration number available annual tonnage does not require registration.

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

Identified uses: Component of Assay kit for laboratory use, research use only

1.3 Details of the supplier of the safety data sheet:

Supplier:

Name: QuickZyme Biosciences B.V.

Address: Sylviusweg 71
2333 BE Leiden
The Netherlands

Information contact: +3188866 6024

E-Mail: info@quickzyme.com

1.4 EMERGENCY TELEPHONE NUMBER:

In the EU call emergency number 112, outside EU call local emergency number.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Product definition: Mixture

Classification according to Regulation (EC) No 1272/2008 (CLP/GHS)

Skin corrosion (Sub-category 1B), H314

Serious eye damage (Category 1), H318

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Respiratory sensitization (Category 1), H334

Serious eye damage (Category 1), H318

Full text of H-Statements: see SECTION 16.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Reduced Labeling (<= 125 ml)

Pictogram:



Signal word: Danger

Hazard statement(s):

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H314 H318 Causes severe skin burns and eye damage.

Precautionary statement(s):

P260 Do not breathe dusts or mists.

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

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard information (EU):

EUH031 Contact with acids liberates toxic gas.

2.3 Other hazards

This substance is not considered to be persistent, bioaccumulating and toxic (PBT).

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

SECTION 3. Composition/information on ingredients

Substance/mixture: mixture

Product/ingredient name Identifiers (ECI No. Type 1272/2008 (CLP))

Formula : C7H7ClNNaO2S · 3H2O

Molecular weight : 281.69 g/mol

CAS-No. : 7080-50-4

EC-No. : 204-854-7

Index-No. : 616-010-00-9

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Component Classification H314, H334

Component Classification Concentration <=100%

Chloramine-T trihydrate

Formula : C3H8O

Molecular weight : 60.1 g/mol

CAS-No. : 71-23-8

EC-No. : 200-746-9

Index-No. : 603-003-00-0

Component Classification H318

Component Classification Concentration <=100%

1-Propanol

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

SECTION 4: First aid measures

4.1 Description of first-aid measures

Eye contact: In case of contact with eyes, rinse immediately with plenty of water. Remove contact lenses. Call a physician

Inhalation: If inhaled, remove to fresh air. Get medical attention if symptoms appear.

Skin contact: Wash with soap and water. Get medical attention if symptoms appear.

If swallowed: Drink water (two glasses at most) Get medical attention if symptoms appear.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms can be found in section 2.2 and / or section 11

4.3 of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide, foam, Dry Powder

Unsuitable extinguishing media

None known

Hazardous combustion products

No specific data

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nitrogen oxides (NOx)

Sulphur oxides

Hydrogen chloride gas

Sodium oxides

Combustible.

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Fire may cause evolution of:

Sulphur oxides, Hydrogen chloride gas, nitrogen oxides

Vapours are heavier than air and may spread along floors.

Forms explosive mixtures with air at ambient temperature

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advise for firefighters

In the event of fire, wear self-contained breathing apparatus and suitable protective clothing

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel: No action shall be taken involving any personal risk or without suitable training. Evacuate the danger area. Provide adequate ventilation. Observe emergency procedures. Avoid substance contact. Keep away from heat and sources of ignition.

For emergency responders: If specialised clothing is required, take note of section 8. See also above information for non-emergency personnel.

6.2 Environmental precautions

Do not let product enter drains

6.3 Methods and materials for containment and cleaning up

Stop leak if without risk. Move containers from spill area. Absorb with an inert dry material and place in on appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

6.4 Reference to other sections

See section 1 for emergency contact information.

See section 8 for appropriate personal protection equipment.

See section 13 for additional disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Work under a hood or in well ventilated location, do not inhale substance / mixture, avoid formation of aerosols or vapours.

Hygiene measures

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures

7.2 Conditions for safe storage, including any incompatibilities

Store according to local regulations, in closed containers well ventilated away from heat and sources of ignition.

7.3 Specific end uses

Research and development

See section 1.2.

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits

No exposure limit value known.

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use approved and tightly fitting safety goggles

Skin protection

Use Nitrile rubber gloves

Body protection

Wear protective laboratory clothing

Respiratory protection

Work in well ventilated room or use a hood.

Environmental exposure controls

Do not let product enter drains

SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solution in water
Colour	transparent colorless
Odour	no data available
Melting/freezing point	Not available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Considered to be flammable
Upper/lower flammability or explosive limits	No data available
pH	No data available
Water solubility	Soluble in water
Viscosity	No data available
Partition coefficient n-octanol/water	No data available
Explosive properties	No data available
Oxidizing properties	No data available

9.2 Other Information

No additional information

SECTION 10: Stability and reactivity

10.1 Reactivity

No data available

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10.2 Chemical Stability

The product is stable

10.3 Possibility of hazardous reactions

Under normal conditions of storage and use hazardous reactions will not occur. Generates dangerous gases in contact with acids

10.4 Conditions to avoid

Heat sources of ignition

10.5 Incompatible materials

No specific data

10.6 Hazardous decomposition products

Under normal conditions of storage hazardous decomposition products should not be formed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

LD50 rat oral 935 mg/kg

Skin corrosion/ irritation

skin burns 4h Rabbit

Serious eye damage / eye irritation

eye damage 72h Rabbit

Sensitisation

May cause breathing problems and asthma if inhaled and allergy upon skin contact

Mutagenicity

No effects known

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

11.2 Additional information

No data available

SECTION 12: Ecological information

12.1 Toxicity

Toxic to aquatic life

12.2 Persistence and degradability

Readily biodegradable

12.3 Bioaccumulative potential

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No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT Not applicable

vPvB Not applicable

12.6 Endocrine disruptive properties

No adverse effects known

12.7 Other adverse effects

Environmental contamination should be avoided

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product

Avoid generation of waste as much as possible. Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless compliant with requirements of local jurisdiction.

Packaging

Avoid generation of waste as much as possible. Disposal of this product should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless compliant with requirements of local jurisdiction.

SECTION 14: Transport information

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN No.	3316		3316	3316
14.2 UN Proper shipping name	Chemical kit		Chemical kit	Chemical kit
14.3 Transport hazard class(es)	9		9	9
14.4 Packing group	II		II	II
14.5 Environmental hazards	No	No	No	No

14.6 Special precautions for user

No specific precautions

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Authorisations and / or restrictions on use

Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII): Not applicable

National legislation

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances: Not applicable,

Other regulations

Not listed.

15.2 Chemical Safety Assessment

The main substances of this product have been subjected to a chemical safety assessment.

SECTION 16: Other information

Full text of H-statements:

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H314 H318 Causes severe skin burns and eye damage.

Further information:

The information provided in this document is believed to be correct, but is possibly not all inclusive and is only intend to be used as a guide. QuickZyme Biosciences B.V. shall not be held liable for any damage resulting from using this kit component, or from contact with this kit component.