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

1.1 Product identifiers

Product name: Standard; part of ‘Total Collagen Assay Kit’
Catalog number: QZBTOTCOL – Standard
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 / 6114
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)

The product is not classified as dangerous according to Regulation (EC) 1272/2008 as amended
2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

Hazard pictograms: None

Signal word: -

Hazard statements: -

Precautionary statements: Wear eye or face protection. Wash hands thoroughly after handling

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easily possible. Continue rinsing.

Supplemental Hazard information: Not applicable

2.3 Other hazards

Not available

SECTION 3. Composition/information on ingredients

Substance/mixture: mixture

Product/ingredient name Identifiers (ECI No. Type 1272/2008 (CLP)
Rat tail collagen 1200 microgram/ml

Acetic acid < 20 mM

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.

Inhalation: -

Skin contact: Wash with soap and water.

If swallowed: Drink water (two glasses at most).

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact Causes eye irritation.
**Safety Data Sheet**

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

Trade name: Total Collagen Assay Kit Component  
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Inhalation  
No known significant effects or critical hazards.

Skin contact  
No known significant effects or critical hazards.

Ingestion  
Mild irritating to mouth

Over-exposure signs/symptoms  
Eye contact  
Adverse effects may include the following: pain or irritation, watering, redness.

Inhalation  
No significant effects or critical hazards.

Skin contact  
No significant effects or critical hazards.

Ingestion  
No significant effects or critical hazards.

4.3 Indication of any immediate medical attention and special treatment needed

**Notes to physician:** No specific treatment  
**Specific treatments:** No specific treatment

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**SECTION 5: Firefighting measures**

5.1 Extinguishing media

**Suitable extinguishing media**  
Use an extinguishing agent suitable for the surrounding fire

**Unsuitable extinguishing media**  
None known

**Hazardous combustion products**  
None

5.2 Special hazards arising from the substance or mixture  
No specific fire or explosion hazard

5.3 Advise for firefighters  
In the event of fire, wear self-contained breathing apparatus

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**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.  
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. Vacuum or sweep up material and place in a designated 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.
SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures
Put on appropriate personal protective equipment (see Section 8)

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 in the dark in a cool place.

7.3 Specific end uses
Research and development, analytical chemistry.
See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Exposure limits
No exposure limit value known.

8.2 Exposure controls

Engineering measures.
No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limit.

Personal protective equipment
Eye/face protection
No specific measures

Skin protection
No specific measures.

Body protection
No specific measures.

Respiratory protection
No specific measures.

Environmental exposure controls
No specific measures.
SECTION 9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>solution in water</td>
</tr>
<tr>
<td>Colour</td>
<td>transparent colorless</td>
</tr>
<tr>
<td>Odour</td>
<td>Acetic acid</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>Not available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not considered to be flammable</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Soluble in water</td>
</tr>
<tr>
<td>Viscosity</td>
<td>No data available</td>
</tr>
<tr>
<td>Partition coefficient n-octanol/water</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not considered to be a product presenting a risk of explosion</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>No data available</td>
</tr>
</tbody>
</table>

9.2 Other Information
No additional information

SECTION 10: Stability and reactivity

10.1 Reactivity
No data available

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.

10.4 Conditions to avoid
No data available

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
Not toxic

Skin corrosion/ irritation
No data available

Serious eye damage / eye irritation
Mild irritant
Sensitisation
No data available

Mutagenicity
No known significant effects or critical hazards
Carcinogenicity
No data available
Reproductive toxicity
No known significant effects or critical hazards
Teratogenicity
No known significant effects or critical hazards

11.2 Additional information
Potential acute health effects
Inhalation
No known significant effects or critical hazards
Ingestion
No known significant effects or critical hazards
Skin contact
No known significant effects or critical hazards
Eye contact
Causes mild eye irritation

SECTION 12: Ecological information

12.1 Toxicity
Not available
12.2 Persistence and degradability
Not available
12.3 Bioaccumulative potential
No data available
12.4 Mobility in soil
No data available
12.5 Results of PBT and vPvB assessment
PBT Not applicable
vPvB Not applicable
12.6 Endocrine disruptive properties
No adverse effects known
12.7 Other adverse effects
No known significant effects or critical hazards

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.
Safety Data Sheet
according to Regulation (EC) No 1907/2006 (REACH)

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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

<table>
<thead>
<tr>
<th>Land transport (ADR/RID)</th>
<th>Inland waterway transport (ADN)</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO-TI / IATA-DGR)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.1 UN No.</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.2 UN Proper shipping name</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.3 Transport hazard class(es)</td>
<td>Not regulated</td>
<td>Not regulated</td>
<td>Not regulated</td>
</tr>
<tr>
<td>14.4 Packing group</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>14.5 Environmental hazards</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
</tbody>
</table>

14.6 Special precautions for user

No specific precautions

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

Other regulations
Not listed.

15.2 Chemical Safety Assessment
This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information
Full text of abbreviated H statements
Not applicable

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.