SAFETY DATA SHEET
Sircol Insoluble Collagen Assay Kit

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

1.1. Product identifier
Product name  Sircol Insoluble Collagen Assay Kit

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses  Dye-binding method for the analysis of insoluble collagen fibres.

1.3. Details of the supplier of the safety data sheet
Supplier  Biocolor Limited
8 Meadowbank Road
Carrickfergus
Co Antrim
United Kingdom
BT38 8YF
+44 (0) 28 93350258 (Mon-Fri 08:30-16:30)
+44 (0) 28 93369716
info@biocolor.co.uk

Contact person  Gary Elliott

1.4. Emergency telephone number
Emergency telephone  +44 (0) 28 93350258 (Mon-Fri 08:30-16:30)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification
Physical hazards  Not Classified
Health hazards  Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
Environmental hazards  Not Classified

2.2. Label elements
Pictogram

Signal word  Warning
Hazard statements  H315 Causes skin irritation.
H319 Causes serious eye irritation.
Precautionary statements  P264 Wash contaminated skin thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of water.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Sircol Insoluble Collagen Assay Kit

Labelling notes
The classification, labelling and advice given for this kit is based on the following hazardous components:
20ml Acid-Salt Wash H315, H319
150ml Dye Release H315, H319

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACETIC ACID</td>
<td>10-30%</td>
</tr>
<tr>
<td>CAS number: 64-19-7</td>
<td>EC number: 200-580-7</td>
</tr>
</tbody>
</table>

Classification
- Flam. Liq. 3 - H226
- Skin Corr. 1A - H314
- Eye Dam. 1 - H318

<table>
<thead>
<tr>
<th>Substance</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>SODIUM HYDROXIDE</td>
<td>1-5%</td>
</tr>
</tbody>
</table>

Classification
- Skin Corr. 1A - H314
- Eye Dam. 1 - H318

The full text for all hazard statements is displayed in Section 16.

Composition comments
The substances are listed as the highest % present in any of the kit components. The classification, labelling and advice given for this kit is based on the following hazardous components:
20ml Acid-Salt Wash H315, H319
150ml Dye Release H315, H319

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
The classification, labelling and advice given for this kit is based on the following hazardous components:
20ml Acid-Salt Wash H315, H319
150ml Dye Release H315, H319

Inhalation
General first aid, rest, warmth and fresh air.

Ingestion
Rinse nose and mouth with water. Get medical attention.

Skin contact
Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention if irritation persists after washing.

Eye contact
Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if irritation persists after washing.

4.2. Most important symptoms and effects, both acute and delayed

Inhalation
No specific symptoms known.

Ingestion
Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.
Sircol Insoluble Collagen Assay Kit

Skin contact  Irritating to skin.
Eye contact   Causes serious eye irritation.

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media  Water spray, foam, dry powder or carbon dioxide.
Unsuitable extinguishing media  None known.

5.2. Special hazards arising from the substance or mixture

Specific hazards  None known.
Hazardous combustion products  None known.

5.3. Advice for firefighters

Protective actions during firefighting  No specific firefighting precautions known.
Special protective equipment for firefighters  Wear fire/flame resistant/retardant clothing. Avoid breathing fire gases or vapours.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions  Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. Use suitable respiratory protection if ventilation is inadequate.

6.2. Environmental precautions

Environmental precautions  Avoid discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up  Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. Wash thoroughly after dealing with a spillage.

6.4. Reference to other sections

Reference to other sections  Wear protective clothing as described in Section 8 of this safety data sheet. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions  Wear protective clothing, gloves, eye and face protection. Read and follow manufacturer's recommendations.
Advice on general occupational hygiene  Provide eyewash station. Wash promptly if skin becomes contaminated. Take off immediately all contaminated clothing and wash it before reuse. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate hand lotion to prevent defatting and cracking of skin.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions  Store in tightly-closed, original container in a dry, cool and well-ventilated place.
Sircol Insoluble Collagen Assay Kit

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure Controls/personal protection

8.1. Control parameters

8.2. Exposure controls

Protective equipment

Appropriate engineering controls Provide adequate general and local exhaust ventilation.

Eye/face protection Tight-fitting safety glasses. Chemical splash goggles.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance Liquid.

Colour Dye Reagent is red, the rest of the components are colourless.

Odour Acid-Salt Wash and Fragmentation have acetic acid odour, the rest of the components are odourless.

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Keep away from heat, sparks and open flame.

10.5. Incompatibility materials

Materials to avoid Strong oxidising agents. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects
Sircol Insoluble Collagen Assay Kit

Toxicological effects

The classification, labelling and advice given for this kit is based on the following hazardous components:

- 20ml Acid-Salt Wash  H315, H319
- 150ml Dye Release  H315, H319

Inhalation

None known.

Ingestion

Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact

Irritating to skin.

Eye contact

Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Toxicity

The product components are not classified as environmentally hazardous.

12.2. Persistence and degradability

Persistence and degradability

There are no data on the degradability of this product. The product contains mainly inorganic substances which are not biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility

No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects

None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information

Incineration is recommended however disposal methods must take in account the substances added to the kit by the end user. Dyes must never be disposed of to drains or water courses.

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.
Sircol Insoluble Collagen Assay Kit

14.4. Packing group
Not applicable.

14.5. Environmental hazards
Environmentally hazardous substance/marine pollutant
No.

14.6. Special precautions for user
Not applicable.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable.

SECTION 15: Regulatory information

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

EU legislation

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments

Revision date
21/07/2015

Revision
1

SDS number
20170

Hazard statements in full
H226 Flammable liquid and vapour.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.