



## SAFETY DATA SHEET

### Fastin Assay Kit

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

##### 1.1. Product identifier

**Product name** Fastin 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 elastins extracted from mammalian sources.

**Uses advised against** For laboratory use only.

##### 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 Corr. 1A - H314 Eye Dam. 1 - H318 STOT SE 3 - H335, H336

**Environmental hazards** Aquatic Chronic 2 - H411

##### 2.2. Label elements

###### Pictogram



**Signal word**

Danger

###### Hazard statements

H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic to aquatic life with long lasting effects.

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<b>Precautionary statements</b>	<p>P260 Do not breathe vapour/spray.</p> <p>P264 Wash contaminated skin thoroughly after handling.</p> <p>P273 Avoid release to the environment.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.</p> <p>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/container in accordance with national regulations.</p>
<b>Contains</b>	PROPAN-1-OL, GUANIDINIUM CHLORIDE, OXALIC ACID, HYDROCHLORIC ACID ...%, TRICHLOROACETIC ACID
<b>Labelling notes</b>	<p>The classification, labelling and advice given for this kit is based on the following hazardous components:</p> <p>2 x 15ml Precipitating Reagent H314, H335, H411</p> <p>110ml Dye Release H315, H318, H336</p>

### 2.3. Other hazards

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

##### 3.2. Mixtures

<b>PROPAN-1-OL</b> <span style="float: right;"><b>30-60%</b></span> CAS number: 71-23-8 <span style="margin-left: 150px;">EC number: 200-746-9</span>
<b>Classification</b> Flam. Liq. 2 - H225 Eye Dam. 1 - H318 STOT SE 3 - H336
<b>GUANIDINIUM CHLORIDE</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 50-01-1 <span style="margin-left: 150px;">EC number: 200-002-3</span>
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319
<b>OXALIC ACID</b> <span style="float: right;"><b>10-30%</b></span> CAS number: 144-62-7 <span style="margin-left: 150px;">EC number: 205-634-3</span>
<b>Classification</b> Acute Tox. 4 - H302 Acute Tox. 4 - H312

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<b>HYDROCHLORIC ACID ...%</b>	<b>10-30%</b>
CAS number: 7647-01-0	EC number: 231-595-7
<b>Classification</b>	
Skin Corr. 1B - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
<b>TRICHLOROACETIC ACID</b>	<b>10-30%</b>
CAS number: 76-03-9	EC number: 200-927-2
M factor (Acute) = 1	M factor (Chronic) = 1
<b>Classification</b>	
Skin Corr. 1A - H314	
Eye Dam. 1 - H318	
STOT SE 3 - H335	
Aquatic Acute 1 - H400	
Aquatic Chronic 1 - H410	

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:

2 x 15ml Precipitating Reagent H314, H335, H411  
110ml Dye Release H315, H318, H336

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

<b>General information</b>	The classification, labelling and advice given for this kit is based on the following hazardous components:  2 x 15ml Precipitating Reagent H314, H335, H411 110ml Dye Release H315, H318, H336
<b>Inhalation</b>	General first aid, rest, warmth and fresh air. Get medical attention if symptoms are severe or persist.
<b>Ingestion</b>	Rinse nose and mouth with water. Get medical attention immediately. Do not induce vomiting.
<b>Skin contact</b>	Remove contaminated clothing and rinse skin thoroughly with water. Get medical attention.
<b>Eye contact</b>	Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

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

<b>Inhalation</b>	Irritating to respiratory system. Vapours may cause drowsiness and dizziness.
<b>Ingestion</b>	May cause chemical burns in mouth, oesophagus and stomach.
<b>Skin contact</b>	Causes burns.
<b>Eye contact</b>	Causes burns.

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

## Fastin Assay Kit

### 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** Control run-off water by containing and keeping it out of sewers and watercourses.

**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** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment. Do not 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. Control run-off water by containing and keeping it out of sewers and watercourses.

#### 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.

#### 7.3. Specific end use(s)

## Fastin Assay Kit

**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

##### Occupational exposure limits

##### PROPAN-1-OL

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 500 mg/m<sup>3</sup>(Sk)

Short-term exposure limit (15-minute): WEL 250 ppm(Sk) 625 mg/m<sup>3</sup>(Sk)

##### OXALIC ACID

Long-term exposure limit (8-hour TWA): WEL 1 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### 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**

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. Incompatible materials

**Materials to avoid**

Strong oxidising agents. Strong alkalis.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products**

No known hazardous decomposition products.

## Fastin Assay Kit

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

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

2 x 15ml Precipitating Reagent H314, H335, H411  
110ml Dye Release H315, H318, H336

**Inhalation** Irritating to respiratory system. Vapours may cause drowsiness and dizziness.

**Ingestion** May cause chemical burns in mouth, oesophagus and stomach.

**Skin contact** Causes burns.

**Eye contact** Causes burns.

### SECTION 12: Ecological Information

#### 12.1. Toxicity

**Toxicity** The product contains a substance which is toxic to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

#### 12.2. Persistence and degradability

**Persistence and degradability** Not readily 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 into account the substances added to the kit by the end user. Dyes must never be disposed of to drains or water courses.

**Disposal methods** Offer surplus and non-recyclable solutions to a licensed disposal company.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID) 3316

UN No. (IMDG) 3316

UN No. (ICAO) 3316

## Fastin Assay Kit

UN No. (ADN) 3316

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) CHEMICAL KIT

Proper shipping name (IMDG) CHEMICAL KIT

Proper shipping name (ICAO) CHEMICAL KIT

Proper shipping name (ADN) CHEMICAL KIT

### 14.3. Transport hazard class(es)

ADR/RID class 9

ADR/RID classification code M11

ADR/RID label 9

IMDG class 9

ICAO class/division 9

ADN class 9

### Transport labels



### 14.4. Packing group

ADR/RID packing group II

IMDG packing group II

ADN packing group II

ICAO packing group II

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

EmS F-A, S-P

ADR transport category 2

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## Fastin Assay Kit

### SECTION 15: Regulatory information

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

<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
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#### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Revision comments</b>	Seventh issue. Section 9 - colour amended from 'colourless'
<b>Revision date</b>	08/01/2016
<b>Revision</b>	7
<b>Supersedes date</b>	24/08/2015
<b>SDS number</b>	20175
<b>Hazard statements in full</b>	H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects.