

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

#### 1.1. Product identifier

Product form : Article  
Product name : Sircol Soluble Collagen Assay Kit  
Type of product : Laboratory testing kit containing dyes, reagents, standards, etc.

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

##### 1.2.1. Relevant identified uses

Intended for general public  
Main use category : Professional use  
Use of the substance/mixture : Dye-binding method for the analysis of acid and pepsin-soluble collagens.

##### 1.2.2. Uses advised against

Restrictions on use : Use only for intended applications.

#### 1.3. Details of the supplier of the safety data sheet

Biocolor Limited  
8 Meadowbank Road  
BT38 8YF Carrickfergus  
T +44 (0) 28 93369716  
[info@biocolor.co.uk](mailto:info@biocolor.co.uk) - [www.biocolor.co.uk](http://www.biocolor.co.uk)

#### 1.4. Emergency telephone number

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

| Country        | Organisation/Company  | Address   | Emergency number | Comment |
|----------------|---|---|------------------|---------|
| United Kingdom | National Poisons Information Service (Birmingham Centre)<br>City Hospital                                       | Dudley Road<br>B18 7QH Birmingham                           | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Cardiff Centre)<br>Gwenwyn Ward, Llandough Hospital                       | Penarth<br>CF64 2XX Cardiff                                 | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service<br>Edinburgh<br>Royal Infirmary of Edinburgh                               | Little France Crescent<br>EH16 4SA Edinburgh                | 0344 892 0111    |         |
| United Kingdom | Guy's & St Thomas' Poisons Unit<br>Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust                   | Avonley Road<br>SE14 5ER London                             | +44 20 7188 7188 |         |
| United Kingdom | National Poisons Information Service (Newcastle Centre)<br>Regional Drugs and Therapeutics Centre, Wolfson Unit | Claremont Place<br>Newcastle-upon-Tyne<br>NE1 4LP Newcastle | 0344 892 0111    |         |
| United Kingdom | National Poisons Information Service (Belfast Centre)<br>Royal Victoria Hospital                                | Grosvenor Road<br>BT12 6BA Belfast                          | 0344 892 0111    |         |

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin corrosion/irritation, Category 1, Sub-Category 1A H314

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Full text of H statements : see section 16

### Adverse physicochemical, human health and environmental effects

None under normal use.

## 2.2. Label elements

### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Contains :

sodium hydroxide; acetic acid

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling.

P280 - Wear protective clothing, eye protection, face protection.

P301+P330+P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

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

P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Extra phrases :

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

150ml Alkali Reagent H315, H319

20ml Acid-Salt Wash Reagent (concentrate) H315, H319

20ml Acid Neutralising Agent H314 1A.

## 2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name             | Product identifier  | %          | Classification according to Regulation (EC) No. 1272/2008 [CLP]  |
|------------------|---|------------|--|
| sodium hydroxide | (CAS-No.) 1310-73-2<br>(EC-No.) 215-185-5<br>(EC Index-No.) 011-002-00-6<br>(REACH-no) 01-2119457892-27 | 5 – 15     | Skin Corr. 1A, H314  |
| acetic acid      | (CAS-No.) 64-19-7<br>(EC-No.) 200-580-7<br>(EC Index-No.) 607-002-00-6                                  | 4.5 – 14.5 | Flam. Liq. 3, H226<br>Skin Corr. 1A, H314  |
| picric acid      | (CAS-No.) 88-89-1<br>(EC-No.) 201-865-9<br>(EC Index-No.) 609-009-00-X                                  | < 1.5      | Expl. 1.1, H201<br>Acute Tox. 3 (Inhalation), H331<br>Acute Tox. 3 (Dermal), H311<br>Acute Tox. 3 (Oral), H301 |

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| Specific concentration limits: |   |  |
|--------------------------------|---|--|
| Name                           | Product identifier  | Specific concentration limits  |
| sodium hydroxide               | (CAS-No.) 1310-73-2<br>(EC-No.) 215-185-5<br>(EC Index-No.) 011-002-00-6<br>(REACH-no) 01-2119457892-27 | ( 0.5 ≤C < 2) Skin Irrit. 2, H315<br>( 0.5 ≤C < 2) Eye Irrit. 2, H319<br>( 2 ≤C < 5) Skin Corr. 1B, H314<br>( 5 ≤C < 100) Skin Corr. 1A, H314    |
| acetic acid                    | (CAS-No.) 64-19-7<br>(EC-No.) 200-580-7<br>(EC Index-No.) 607-002-00-6                                  | ( 10 ≤C < 25) Skin Irrit. 2, H315<br>( 10 ≤C < 25) Eye Irrit. 2, H319<br>( 25 ≤C < 90) Skin Corr. 1B, H314<br>( 90 ≤C < 100) Skin Corr. 1A, H314 |

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:  
150ml Alkali Reagent H315, H319  
20ml Acid-Salt Wash Reagent (concentrate) H315, H319  
20ml Acid Neutralising Agent H314 1A

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : The classification, labelling and advice given for this kit is based on the following hazardous components:  
150ml Alkali Reagent H315, H319  
20ml Acid-Salt Wash Reagent (concentrate) H315, H319  
20ml Acid Neutralising Agent H314 1A.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms, call a doctor.

First-aid measures after skin contact : Take off contaminated clothing and wash it before reuse. Gently wash with plenty of soap and water. Get immediate medical advice/attention.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact, immediately rinse eyes with plenty of water for at least 15 minutes. Get immediate medical advice/attention.

First-aid measures after ingestion : If swallowed: rinse mouth. Do NOT induce vomiting. Drink plenty of water. Get immediate medical advice/attention.

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

Symptoms/effects after inhalation : None.

Symptoms/effects after skin contact : Causes severe skin burns and eye damage.

Symptoms/effects after eye contact : Causes serious eye damage.

Symptoms/effects after ingestion : None.

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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Use extinguishing agent suitable for surrounding fire. Dry chemical, CO<sub>2</sub>, or water spray or regular foam.

Unsuitable extinguishing media : None.

### 5.2. Special hazards arising from the substance or mixture

No additional information available

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### 5.3. Advice for firefighters

- Firefighting instructions : Do not allow run-off from fire-fighting to enter drains or water courses.  
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Use self-contained breathing apparatus and chemically protective clothing. Avoid contact with skin and eyes. Do not breathe vapours. Ventilate the area thoroughly.

#### 6.1.1. For non-emergency personnel

- Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

- Protective equipment : For further information refer to section 8: "Exposure controls/personal protection".

### 6.2. Environmental precautions

Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Contain or absorb spilled liquid with earth or other absorbent material. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal. After cleaning, flush traces away with water.

### 6.4. Reference to other sections

SECTION 8. SECTION 11. SECTION 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Precautions for safe handling : Avoid contact with skin and eyes.  
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off immediately all contaminated clothing and wash it before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Store in a well-ventilated place. Keep container tightly closed. Keep cool.  
Incompatible products : Keep away from food, drink and animal feedingstuffs.

### 7.3. Specific end use(s)

Dye-binding method for the analysis of acid and pepsin-soluble collagens.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

| sodium hydroxide (1310-73-2)                  |                                       |
|---|---------------------------------------|
| United Kingdom - Occupational Exposure Limits |                                       |
| Local name                                    | Sodium hydroxide                      |
| WEL STEL (mg/m <sup>3</sup> )                 | 2 mg/m <sup>3</sup>                   |
| Regulatory reference                          | EH40/2005 (Fourth edition, 2020). HSE |

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| sodium hydroxide (1310-73-2)          |                     |
|---------------------------------------|---------------------|
| <b>DNEL/DMEL (Workers)</b>            |                     |
| Long-term - local effects, inhalation | 1 mg/m <sup>3</sup> |
| <b>DNEL/DMEL (General population)</b> |                     |
| Long-term - local effects, inhalation | 1 mg/m <sup>3</sup> |

| Poly(oxy-1,2-ethanediyl), $\alpha$ -hydro- $\omega$ -hydroxy- Ethane-1,2-diol, ethoxylated (25322-68-3) |                          |
|---|--------------------------|
| <b>DNEL/DMEL (Workers)</b>  |                          |
| Long-term - systemic effects, dermal  | 112 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation  | 40.2 mg/m <sup>3</sup>   |
| <b>DNEL/DMEL (General population)</b>   |                          |
| Long-term - systemic effects, oral  | 40 mg/kg bodyweight/day  |
| Long-term - systemic effects, inhalation  | 7.14 mg/m <sup>3</sup>   |
| Long-term - systemic effects, dermal  | 40 mg/kg bodyweight/day  |
| <b>PNEC (Water)</b>   |                          |
| PNEC aqua (freshwater)  | 273 mg/l                 |
| PNEC aqua (marine water)  | 27.3 mg/l                |
| PNEC aqua (intermittent, freshwater)  | 1 mg/l                   |
| PNEC aqua (intermittent, marine water)  | 100 $\mu$ g/L            |
| <b>PNEC (Sediment)</b>  |                          |
| PNEC sediment (freshwater)  | 1030 mg/kg dwt           |
| PNEC sediment (marine water)  | 103 mg/kg dwt            |
| <b>PNEC (Soil)</b>  |                          |
| PNEC soil   | 46.4 mg/kg dwt           |
| <b>PNEC (STP)</b>   |                          |
| PNEC sewage treatment plant   | 72.92 mg/l               |

## 8.2. Exposure controls

### Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Good standard of general ventilation.

### Personal protective equipment:

Gloves. In case of splash hazard: safety glasses. Face shield. Protective clothing.

### Hand protection:

Protective gloves made of latex. Nitrile rubber gloves, natural rubber gloves. PVC gloves. EN 374

### Eye protection:

EN 166

### Respiratory protection:

No respiratory protection needed under normal use conditions

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### Personal protective equipment symbol(s):



## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|   |  |
|---|--|
| Physical state                                  | : Liquid   |
| Colour  | : Dye Reagent is red, the rest of the components are colourless.   |
| Odour   | : Acid-Salt Wash and Fragmentation Reagent have acetic acid odour, the rest of the components are odourless. |
| Odour threshold                                 | : No data available  |
| pH  | : No data available  |
| Relative evaporation rate (butylacetate=1)      | : No data available  |
| Melting point                                   | : No data available  |
| Freezing point                                  | : No data available  |
| Boiling point                                   | : No data available  |
| Flash point                                     | : > 100 °C   |
| Auto-ignition temperature                       | : No data available  |
| Decomposition temperature                       | : No data available  |
| Flammability (solid, gas)                       | : No data available  |
| Vapour pressure                                 | : No data available  |
| Relative vapour density at 20 °C                | : No data available  |
| Relative density                                | : No data available  |
| Solubility                                      | : Miscible with water.   |
| Partition coefficient n-octanol/water (Log Pow) | : No data available  |
| Viscosity, kinematic                            | : No data available  |
| Viscosity, dynamic                              | : No data available  |
| Explosive properties                            | : No data available  |
| Oxidising properties                            | : No data available  |
| Explosive limits                                | : No data available  |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

None.

### 10.2. Chemical stability

Stable under normal conditions of use.

### 10.3. Possibility of hazardous reactions

None under normal use.

### 10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

### 10.5. Incompatible materials

Strong oxidizing agents. alkalis.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

#### acetic acid (64-19-7)

|                             |             |
|-----------------------------|-------------|
| LC50 Inhalation - Rat [ppm] | 5620 ppm/4h |
|-----------------------------|-------------|

Skin corrosion/irritation : Causes severe skin burns.  
Serious eye damage/irritation : Assumed to cause serious eye damage  
Respiratory or skin sensitisation : Not classified  
Germ cell mutagenicity : Not classified  
Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

Other information : The classification, labelling and advice given for this kit is based on the following hazardous components:  
150ml Alkali Reagent H315, H319  
20ml Acid-Salt Wash Reagent (concentrate) H315, H319  
20ml Acid Neutralising Agent H314 1A.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute) : Not classified  
Hazardous to the aquatic environment, long-term (chronic) : Not classified

#### sodium hydroxide (1310-73-2)

|                |  |
|----------------|--|
| EC50 Daphnia 1 | 40.4 mg/l Test organisms (species): Ceriodaphnia sp. |
|----------------|--|

#### 12.2. Persistence and degradability

No additional information available

#### 12.3. Bioaccumulative potential

#### Sircol Soluble Collagen Assay Kit

|                           |                           |
|---------------------------|---------------------------|
| Bioaccumulative potential | Bioaccumulation unlikely. |
|---------------------------|---------------------------|

#### 12.4. Mobility in soil

#### Sircol Soluble Collagen Assay Kit

|                |  |
|----------------|--|
| Ecology - soil | Miscible with water. Expected to be highly mobile in soil. |
|----------------|--|

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### 12.5. Results of PBT and vPvB assessment

#### Sircol Soluble Collagen Assay Kit

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

#### Component

sodium hydroxide (1310-73-2)

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII  
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

### 12.6. Other adverse effects

Other adverse effects : None known.






## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste treatment methods : This material and its container must be disposed of as hazardous waste. 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.

## SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR   | IMDG  | IATA  | ADN   | RID   |
|---|---|---|---|---|
| <b>14.1. UN number</b>  |   |   |   |   |
| UN 3316   | UN 3316   | UN 3316   | UN 3316   | UN 3316   |
| <b>14.2. UN proper shipping name</b>  |   |   |   |   |
| CHEMICAL KIT  | CHEMICAL KIT  | Chemical kit  | CHEMICAL KIT  | CHEMICAL KIT  |
| <b>Transport document description</b>   |   |   |   |   |
| UN 3316 CHEMICAL KIT, 9, II, (E)  | UN 3316 CHEMICAL KIT, 9, II   | UN 3316 Chemical kit, 9, II   | UN 3316 CHEMICAL KIT, 9, II   | UN 3316 CHEMICAL KIT, 9, II   |
| <b>14.3. Transport hazard class(es)</b>   |   |   |   |   |
| 9   | 9   | 9   | 9   | 9   |
|  |  |  |  |  |
| <b>14.4. Packing group</b>  |   |   |   |   |
| II  | II  | II  | II  | II  |
| <b>14.5. Environmental hazards</b>  |   |   |   |   |
| Dangerous for the environment : No  | Dangerous for the environment : No<br>Marine pollutant : No                         | Dangerous for the environment : No  | Dangerous for the environment : No  | Dangerous for the environment : No  |
| No supplementary information available  |   |   |   |   |

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M11



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|                               |                 |
|-------------------------------|-----------------|
| Special provisions (ADR)      | : 251, 340, 671 |
| Limited quantities (ADR)      | : See SP 251    |
| Excepted quantities (ADR)     | : See SP 340    |
| Packing instructions (ADR)    | : P901          |
| Transport category (ADR)      | : 2             |
| Tunnel restriction code (ADR) | : E             |
| EAC code                      | : 2Z            |

### Transport by sea

|                             |            |
|-----------------------------|------------|
| Special provisions (IMDG)   | : 251, 340 |
| Packing instructions (IMDG) | : P901     |
| EmS-No. (Fire)              | : F-A      |
| EmS-No. (Spillage)          | : S-P      |
| Stowage category (IMDG)     | : A        |

### Air transport

|  |             |
|--|-------------|
| PCA Excepted quantities (IATA)               | : E0        |
| PCA Limited quantities (IATA)                | : Y960      |
| PCA limited quantity max net quantity (IATA) | : 1kg       |
| PCA packing instructions (IATA)              | : 960       |
| PCA max net quantity (IATA)                  | : 10kg      |
| CAO packing instructions (IATA)              | : 960       |
| CAO max net quantity (IATA)                  | : 10kg      |
| Special provisions (IATA)                    | : A44, A163 |
| ERG code (IATA)                              | : 9L        |

### Inland waterway transport

|                                   |              |
|-----------------------------------|--------------|
| Classification code (ADN)         | : M11        |
| Special provisions (ADN)          | : 251, 340   |
| Limited quantities (ADN)          | : See SP 251 |
| Excepted quantities (ADN)         | : See SP 340 |
| Equipment required (ADN)          | : PP         |
| Number of blue cones/lights (ADN) | : 0          |

### Rail transport

|                                    |                 |
|------------------------------------|-----------------|
| Classification code (RID)          | : M11           |
| Special provisions (RID)           | : 251, 340, 671 |
| Limited quantities (RID)           | : see SP251     |
| Excepted quantities (RID)          | : see SP340     |
| Packing instructions (RID)         | : P901          |
| Transport category (RID)           | : See SP 671    |
| Hazard identification number (RID) | : 90            |

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

## SECTION 15: Regulatory information

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

#### 15.1.1. EU-Regulations

Contains no substance on the REACH candidate list

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

**For the following substances of this mixture a chemical safety assessment has been carried out**

sodium hydroxide

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### SECTION 16: Other information

#### Indication of changes:

| Section | Changed item | Change  | Comments  |
|---------|--------------|---------|---|
| 3.2     |              | Removed | 9002-93-1 substance (listed in REACH Annex XIV) |
| 15.1    |              | Removed | 9002-93-1 substance (listed in REACH Annex XIV) |

#### Full text of H- and EUH-statements:

|                           |  |
|---------------------------|--|
| Acute Tox. 3 (Dermal)     | Acute toxicity (dermal), Category 3                    |
| Acute Tox. 3 (Inhalation) | Acute toxicity (inhal.), Category 3                    |
| Acute Tox. 3 (Oral)       | Acute toxicity (oral), Category 3                      |
| Expl. 1.1                 | Explosives, Division 1.1                               |
| Eye Irrit. 2              | Serious eye damage/eye irritation, Category 2          |
| Flam. Liq. 3              | Flammable liquids, Category 3                          |
| Skin Corr. 1A             | Skin corrosion/irritation, Category 1, Sub-Category 1A |
| Skin Corr. 1B             | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| Skin Irrit. 2             | Skin corrosion/irritation, Category 2                  |
| H201                      | Explosive; mass explosion hazard.                      |
| H226                      | Flammable liquid and vapour.                           |
| H301                      | Toxic if swallowed.                                    |
| H311                      | Toxic in contact with skin.                            |
| H314                      | Causes severe skin burns and eye damage.               |
| H315                      | Causes skin irritation.                                |
| H319                      | Causes serious eye irritation.                         |
| H331                      | Toxic if inhaled.                                      |

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.