

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

#### 1.1. Product identifier

Product form : Article  
Product name : Purple-Jelley Hyaluronan Assay H1000  
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 analysis of hyaluronic acid in tissue

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

Serious eye damage/eye irritation, Category 2 H319

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Hazardous to the aquatic environment — Chronic Hazard, Category 2 H411

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) :



GHS07

GHS09

Signal word (CLP) :

Warning

Hazard statements (CLP) :

H319 - Causes serious eye irritation.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling.

P273 - Avoid release to the environment.

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

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 component:

20ml Cetylpyridinium chloride solution H319, H411.

## 2.3. Other hazards

Other hazards which do not result in 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

Component	
Cetylpyridinium chloride (123-03-5)	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

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Cetylpyridinium chloride	CAS-No.: 123-03-5 EC-No.: 204-593-9 REACH-no: 01-2120115013-79	≤ 2	Acute Tox. 3 (Oral), H301 (ATE=100 mg/kg bodyweight) Acute Tox. 2 (Inhalation), H330 (ATE=0.05 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=100)

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 Cetylpyridinium chloride solution H319, H411

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:  
20ml Cetylpyridinium chloride solution H319, H411.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

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

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

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

Symptoms/effects after inhalation : None.

Symptoms/effects after skin contact : None.

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

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

Fire hazard : None.

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 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

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|------------------|---|
| General measures | : Use self-contained breathing apparatus and chemically protective clothing. Do not breathe vapours. Avoid contact with skin and eyes. 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. Do not allow to enter drains or water courses. Toxic to aquatic life with long lasting effects. Notify authorities if product enters sewers or public waters.

### 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. |
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### 6.4. Reference to other sections

SECTION 8. SECTION 11. SECTION 13.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

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|-------------------------------|--|
| Precautions for safe handling | : Avoid contact with eyes. Wear protective gloves, protective clothing, eye protection, face protection.   |
| 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 analysis of hyaluronic acid in tissue.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### 8.1.1. National occupational exposure and biological limit values

No additional information available

#### 8.1.2. Recommended monitoring procedures

No additional information available

#### 8.1.3. Air contaminants formed

No additional information available

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 8.1.4. DNEL and PNEC

No additional information available

### 8.1.5. Control banding

No additional information available

## 8.2. Exposure controls

### 8.2.1. Appropriate engineering controls

#### Appropriate engineering controls:

Good standard of general ventilation.

### 8.2.2. Personal protection equipment

#### Personal protective equipment:

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

#### Personal protective equipment symbol(s):



#### 8.2.2.1. Eye and face protection

##### Eye protection:

EN 166. Chemical goggles or safety glasses

#### 8.2.2.2. Skin protection

##### Hand protection:

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

#### 8.2.2.3. Respiratory protection

##### Respiratory protection:

No respiratory protection needed under normal use conditions

#### 8.2.2.4. Thermal hazards

No additional information available

### 8.2.3. Environmental exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

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

Physical state	: Liquid
Colour	: Dye reagent is purple, the tablets are white, and the rest of the components are colourless.
Odour	: Dye reagent has a sulphurous odour, the rest of the components are odourless.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Not available
Explosive limits	: Not available
Lower explosive limit (LEL)	: Not available
Upper explosive limit (UEL)	: Not available
Flash point	: > 100 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, kinematic	: Not available
Solubility	: Miscible with water.
Partition coefficient n-octanol/water (Log Kow)	: Not available

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Vapour pressure	: Not available
Vapour pressure at 50 °C	: Not available
Density	: Not available
Relative density	: Not available
Relative vapour density at 20 °C	: Not available
Particle size	: Not applicable
Particle size distribution	: Not applicable
Particle shape	: Not applicable
Particle aspect ratio	: Not applicable
Particle aggregation state	: Not applicable
Particle agglomeration state	: Not applicable
Particle specific surface area	: Not applicable
Particle dustiness	: Not applicable

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

No additional information available

#### 9.2.2. Other safety characteristics

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.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

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

Cetylpyridinium chloride (123-03-5)	
LD50 oral rat	100 mg/kg bodyweight
LC50 Inhalation - Rat (Vapours)	0.5 mg/l/4h

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified

### Cetylpyridinium chloride (123-03-5)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

### 11.2.2. Other information

Other information	: The classification, labelling and advice given for this kit is based on the following hazardous components: 20ml Cetylpyridinium chloride solution H319, H411
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## 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)	: Toxic to aquatic life with long lasting effects.
Additional information	: The classification, labelling and advice given for this kit is based on the following hazardous component: 20ml Cetylpyridinium chloride solution H319, H411.

### Cetylpyridinium chloride (123-03-5)

LC50 - Fish [1]	0.01 mg/l
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### 12.2. Persistence and degradability

No additional information available

### 12.3. Bioaccumulative potential

#### Purple-Jelley Hyaluronan Assay H1000

Bioaccumulative potential	Bioaccumulation unlikely.
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### 12.4. Mobility in soil

#### Purple-Jelley Hyaluronan Assay H1000

Ecology - soil	Miscible with water. Expected to be highly mobile in soil.
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### 12.5. Results of PBT and vPvB assessment

#### Purple-Jelley Hyaluronan Assay H1000

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

Cetylpyridinium chloride (123-03-5)	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
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### 12.6. Endocrine disrupting properties

No additional information available

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 12.7. Other adverse effects

No additional information available

## 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 / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
<b>14.1. UN number or ID 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, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 3316 CHEMICAL KIT, 9, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 3316 Chemical kit, 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3316 CHEMICAL KIT, 9, III, ENVIRONMENTALLY HAZARDOUS	UN 3316 CHEMICAL KIT, 9, III, ENVIRONMENTALLY HAZARDOUS
<b>14.3. Transport hazard class(es)</b>				
9	9	9	9	9
				
<b>14.4. Packing group</b>				
III	III	III	III	III
<b>14.5. Environmental hazards</b>				
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

### 14.6. Special precautions for user

#### Overland transport

Classification code (ADR) : M11  
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

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### 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. Maritime transport in bulk according to IMO instruments

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:**

Cetylpyridinium chloride

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

### SECTION 16: Other information

#### Indication of changes:

Modified. according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878.

Abbreviations and acronyms	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
IATA	International Air Transport Association
	IBC Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IMO)
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
NOAEL	No-Observed Adverse Effect Level
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
vPvB	Very Persistent and Very Bioaccumulative

Data sources : ECHA (European Chemicals Agency). Supplier's safety documents.

Full text of H- and EUH-statements	
Acute Tox. 2 (Inhalation)	Acute toxicity (inhal.), Category 2
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H301	Toxic if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.

# Purple-Jelley Hyaluronan Assay H1000

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

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

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.

Safety Data Sheet (SDS), EU

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.