



## Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

### BIOCOMPLEX ELEVEN FLUID

Revision nr.: 1. Dated: 16/07/2021.

This safety data sheet replaces all previous versions.

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Code: **PL2605**  
Product name: **BIOCOMPLEX ELEVEN FLUID**

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

Intended use **conditioning for hair**

#### Identified Uses

use the product as a hair conditioner

Industrial

Professional

Consumer

#### Uses Advised Against

Do not use anything other than the one indicated.

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

**HAIR BIOLOGIC SYSTEM SRL - VIA PADRE ANTONIO CASAMASSA, 87 - 00119 ROMA**  
**TEL. +39 06.5652045/6 - FAX +39 06.5652150, INFO@HBSSRL.COM, WWW.JALYD.COM**

### 1.4. Emergency telephone number

#### For urgent inquiries refer to

Centro antiveleni di Milano	(CAV Ospedale Niguarda Ca Granda)	H24 02-66101029
Centro antiveleni di Pavia	(CAV IRCCS Fondazione Maugeri)	H24 0382-24444
Centro antiveleni di Bergamo	(CAV Ospedali Riuniti)	H24 800-883300
Centro antiveleni di Firenze	(CAV Ospedale Careggi)	H24 055-7947819
Centro antiveleni di Roma	(CAV Policlinico Gemelli )	H24 063054343
Centro antiveleni di Roma	(CAV Policlinico Umberto I)	H24 0649978000
Centro antiveleni di Napoli	(CAV Ospedale Cardarelli)	H24 0817472870
Centro antiveleni di Catania	(CAV Ospedale Garibaldi)	H24 800-410989
Centro antiveleni di Genova	(CAV Ospedale San Martino)	H24 010352808
Centro antiveleni di La Spezia	(CAV Ospedale Civile Sant' Andrea)	H24 0187533297 0187533376
Centro antiveleni di Lecce	(CAV Presidio Ospedaliero n° 1)	H24 0832351105
Centro antiveleni di Pordenone	(CAV Ospedale Civile)	H24 0434550301
Centro antiveleni di Reggio Calabria	(CAV Ospedali Riuniti))	H24 0965811624
Centro antiveleni di Chieti	(CAV Ospedale Santissima Annunziata)	H24 0871551219
Centro antiveleni di Ancona	(CAV Centro Universitario Ospedaliero di Farmacovigilanza)	dalle 7.30 alle 13.30 072181028.

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2015/830.

Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Eye irritation, category 2

**H319**

Causes serious eye irritation.

## 2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.  
Hazard pictograms:



Signal words:       Warning

Hazard statements:

**H319** Causes serious eye irritation.  
**EUH208** Contains: PARFUM, IMIDAZOLIDINYL UREA  
May produce an allergic reaction.

Precautionary statements:

**P264** Wash . . . thoroughly after handling.  
**P280** Wear eye protection / face protection.  
**P337+P313** If eye irritation persists: Get medical advice / attention.

## 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Information not relevant.

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification 1272/2008 (CLP)
<b>CETEARYL ALCOHOL</b> CAS 112-92-5 EC 204-017-6 INDEX - Reg. no. 01-2119485907-20-0000	$1 \leq x < 5$	Aquatic Chronic 3 H412
<b>BEHENTRIMONIUM CHLORIDE</b> CAS 17301-53-0  EC 241-327-0 INDEX -	$1 \leq x < 5$	STOT RE 2 H373, Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411
<b>IMIDAZOLIDINYL UREA</b> CAS 39236-46-9 EC 254-372-6 INDEX - Reg. no. 01-2119983788-11-0000	$0,1 \leq x < 1$	Skin Sens. 1 H317
<b>PARFUM</b> CAS EC INDEX -	$0,1 \leq x < 1$	Skin Sens. 1 H317, Aquatic Chronic 2 H411

The full wording of hazard (H) phrases is given in section 16 of the sheet.

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available.

### **5. FIREFIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **SUITABLE EXTINGUISHING EQUIPMENT**

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.

##### **UNSUITABLE EXTINGUISHING EQUIPMENT**

None in particular.

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

##### **HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE**

Do not breathe combustion products.

#### **5.3. Advice for firefighters**

##### **GENERAL INFORMATION**

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

##### **SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS**

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

### **6. ACCIDENTAL RELEASE MEASURES**

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

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

#### **6.2. Environmental precautions**

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

#### **6.4. Reference to other sections**

Any information on personal protection and disposal is given in sections 8 and 13.

### **7. HANDLING AND STORAGE**

#### **7.1. Precautions for safe handling**

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of back-fire. Avoid bunching of electrostatic charges. Do not eat, drink or smoke during use. Remove any contaminated clothes and personal protective equipment before entering places in which people eat. Avoid leakage of the product into the environment.

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

Store only in the original container. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

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

Information not available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### CETEARYL ALCOHOL

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,00156	mg/l
Normal value in marine water	0,000156	mg/l
Normal value for fresh water sediment	16	mg/kg
Normal value for marine water sediment	1,6	mg/kg
Normal value for the terrestrial compartment	13	mg/kg

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				75 mg/kg		75 mg/kg		
Inhalation		65 mg/m3		65 mg/m3		220 mg/m3		220 mg/m3
Skin		75 mg/kg		75 mg/kg		125 mg/kg		125 mg/kg

#### BEHENTRIMONIUM CHLORIDE

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	13	µg/l
Normal value in marine water	1,3	µg/l
Normal value for fresh water sediment	1,25	mg/kg/d
Normal value for marine water sediment	125	mg/kg/d
Normal value for the terrestrial compartment	1	mg/kg/d

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers				Effects on workers			
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Inhalation								0,49 mg/m3
Skin								1,7 mg/kg

VND = hazard identified but no DNEL/PNEC available;

NEA = no exposure expected;

NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

#### EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

#### RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

## ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Appearance	liquid
Colour	colourless
Odour	characteristic
Odour threshold	Not available
pH	4,76
Melting point / freezing point	Not available
Initial boiling point	90 °C
Boiling range	Not available
Flash point	100 °C
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Lower inflammability limit	Not available
Upper inflammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	0,97 - 1,00 g/ml g/ml
Solubility	Not available
Partition coefficient: n-octanol/water	Not available
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	36480 mpa.S T-E 12 rpm
Explosive properties	Not available
Oxidising properties	Not available

### 9.2. Other information

VOC (Directive 2010/75/EC): 0,60 % - 5,89 g/litre

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

### 10.2. Chemical stability

The product is stable in normal conditions of use and storage.

### 10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

### 10.4. Conditions to avoid

None in particular. However the usual precautions used for chemical products should be respected.

### 10.5. Incompatible materials

Information not available.

### 10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

## 11. INFORMAZIONI TOSSICOLOGICHE

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

### 11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available.

Information on likely routes of exposure

Information not available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Information not available.

Interactive effects

Information not available.

#### ACUTE TOXICITY

ATE (Inhalation) of the mixture: Not classified (no significant component)

ATE (Oral) of the mixture: Not classified (no significant component)

ATE (Dermal) of the mixture: Not classified (no significant component)

#### IMIDAZOLIDINYL UREA

LD50 (Oral) 5200 mg/kg RATTO

LD50 (Dermal) > 5000 mg/kg CONIGLIO

LC50 (Inhalation) > 5,5 mg/l RATTO

#### BEHENTRIMONIUM CHLORIDE

LD50 (Oral) > 2000 mg/kg ratto

LD50 (Dermal) > 2000 mg/kg coniglio

#### CETEARYL ALCOHOL

LD50 (Oral) > 2000 mg/kg RATTO

LD50 (Dermal) > 5000 mg/kg CONIGLIO

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class.

#### SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation.

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains: PARFUM

IMIDAZOLIDINYL UREA

#### GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class.

#### CARCINOGENICITY

Does not meet the classification criteria for this hazard class.

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class.

#### STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class.

#### STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class.

#### ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class.

## **12. ECOLOGICAL INFORMATION**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

### **12.1. Toxicity**

#### **IMIDAZOLIDINYL UREA**

LC50 - for Fish

220 mg/l PESCI

EC50 - for Crustacea

58 mg/l DAPHNIA MAGNA

EC50 - for Algae / Aquatic Plants

5,78 mg/l ALGHE VERDI

### **12.2. Persistence and degradability**

#### **PARFUM**

Degradability: information not available

#### **CETEARYL ALCOHOL**

Rapidly degradable

**12.3. Bioaccumulative potential**

Information not available.

**12.4. Mobility in soil**

Information not available.

**12.5. Results of PBT and vPvB assessment**

On the basis of available data, the product does not contain any PBT or vPvB in percentage  $\geq$  than 0,1%.

**12.6. Other adverse effects**

Information not available.

**13. DISPOSAL CONSIDERATIONS**

**13.1. Waste treatment methods**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

**CONTAMINATED PACKAGING**

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

**14. TRANSPORT INFORMATION**

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

Not applicable.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Not applicable.

**14.6. Special precautions for user**

Not applicable.

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

Information not relevant.

**15. REGULATORY INFORMATION**

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

Seveso Category - Directive 2012/18/EC: None

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point 3 - 40

Contained substance

Point 70                      CYCLOPENTASILOX  
ANE Nr. Reg.: 01-2119511367-43

Regulation (EC) No. 2019/1148 - on the marketing and use of explosives precursors

Not applicable.

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.



Substances subject to authorisation (Annex XIV REACH)

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

**15.2. Chemical safety assessment**

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

**16. OTHER INFORMATION**

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

<b>STOT RE 2</b>	Specific target organ toxicity - repeated exposure, category 2
<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Eye Irrit. 2</b>	Eye irritation, category 2
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Skin Sens. 1</b>	Skin sensitization, category 1
<b>Aquatic Acute 1</b>	Hazardous to the aquatic environment, acute toxicity, category 1
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure.
<b>H318</b>	Causes serious eye damage.
<b>H319</b>	Causes serious eye irritation.
<b>H315</b>	Causes skin irritation.
<b>H317</b>	May cause an allergic skin reaction.
<b>H400</b>	Very toxic to aquatic life.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

**LEGEND:**

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.



- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

#### GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
12. Regulation (EU) 2016/1179 (IX Atp. CLP)
13. Regulation (EU) 2017/776 (X Atp. CLP)
14. Regulation (EU) 2018/669 (XI Atp. CLP)
15. Regulation (EU) 2018/1480 (XIII Atp. CLP)
16. Regulation (EU) 2019/521 (XII Atp. CLP)
17. Regulation (EU) 2019/1148
18. Regulation (EU) 2020/217 (XIV Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

#### Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

#### CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11.

Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.