



## SAFETY DATA SHEET

According to Annex II to REACH - Regulation (EU) 2020/878

### BIOPHORMA CURLY CHAOS

Revision nr. 3

Dated 08/10/2024

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

### 1.1. Product identifier

Code: **PL3091**  
Product name: **BIOPHORMA CURLY CHAOS**

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

Intended use **Cosmetic preparation - Hair styling**

Identified Uses	Industrial	Professional	Consumer
use the product as a hair conditioner	-	x	x
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  
Matteo Zanotti Russo  
c/o Angel Consulting sas  
Piazza Duca degli Abruzzi 5/4  
16167 Genova  
tel. 340.5180274  
email: info@angelconsulting.it

- Centro antiveneni di Roma (CAV "Osp. Pediatrico Bambino Gesù" Dip. Emergenza e Accettazione DEA, Piazza Sant'Onofrio 4, CAP 00165, resp Marco Marano, tel 06.68593726)
- Centro antiveneni di Foggia (Az. Osp. Univ. Foggia, V.le Luigi Pinto 1, CAP 71122, resp Anna Lepore, tel 800183459)
- Centro antiveneni di Napoli (Az. Osp. "A. Cardarelli", Via A. Cardarelli 9, CAP 80131, resp Romolo Villani, tel 081.5453333)
- Centro antiveneni di Roma (CAV Policlinico "Umberto I", V.le del Policlinico 155, CAP 00161, resp M. Caterina Grassi, tel 06.49978000)
- Centro antiveneni di Roma (CAV Policlinico "A. Gemelli", Largo Agostino Gemelli 8, CAP 00168, resp Alessandro Barelli, tel 06.3054343)
- Centro antiveneni di Firenze (Az. Osp. "Careggi" U.O. Tossicologia Medica, Largo Brambilla 3, CAP 50134, resp Francesco Gambassi, tel 055.7947819)
- Centro antiveneni di Pavia (CAV Centro Nazionale di Informazione Tossicologica, Via Salvatore Maugeri 10, CAP 27100, tel 0382.24444)
- Centro antiveneni di Milano (Osp. Niguarda Ca' Granda, Piazza Ospedale Maggiore 3, CAP 20162, tel 02.66101029)
- Centro antiveneni di Bergamo (Azienda Ospedaliera Papa Giovanni XXII, Piazza OMS 1, CAP 24127, tel 800883300)
- Centro antiveneni di Verona (Azienda Ospedaliera Integrata Verona, Piazzale Aristide Stefani 1, CAP 37126, resp Giorgio Ricci, tel 800011858)

## 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 2020/878.

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:

Hazardous to the aquatic environment,  
chronic toxicity, category 3                      H412      Harmful to aquatic life with long lasting effects.

### 2.2. Label elements

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

Hazard pictograms:                      --

Signal words:                              --

Hazard statements:

**H412**    Harmful to aquatic life with long lasting effects.

**EUH208**                                      Contains: IMIDAZOLIDINYL UREA. May produce an allergic reaction.

Precautionary statements:

**P273**    Avoid release to the environment.

### 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%.

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Information not relevant.

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>POLYQUATERNIUM-37</b>		
INDEX	$1 \leq x < 5$	Aquatic Chronic 2 H411
EC -		
CAS 26161-33-1		
<b>IMIDAZOLIDINYL UREA</b>		
INDEX -	$0,1 \leq x < 1$	Skin Sens. 1 H317
EC 254-372-6		
CAS 39236-46-9		
REACH Reg. 01-2119983788-11-0000		

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

No effects requiring implementation of special first aid measures are expected. The following information represents practical indications of correct behaviour in the event of contact with a chemical product, even if not hazardous.

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

#### Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

### **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**

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Wash hands after use.

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

Keep the product in clearly labelled containers. Store the containers sealed, in a well ventilated place, away from direct sunlight.

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

Information not available.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

Information not available.

### 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.

#### HAND PROTECTION

Protect hands with category III work gloves.

The following should be considered when choosing work glove material (see standard EN 374): compatibility, degradation, permeability time.

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 ISO 16321).

#### RESPIRATORY PROTECTION

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. 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).

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.

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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

Properties	Value	Information
Appearance	crema/ pasta	
Colour	bianco white	
Odour	characteristic	
Melting point / freezing point	not available	
Initial boiling point	not available	
Flammability	not available	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not available	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	4,73	
Kinematic viscosity	not available	
Dynamic viscosity	98280 mPa.s SPINDLE# T-F 6,0 rpm	
Solubility	not available	
Partition coefficient: n-octanol/water	not available	
Vapour pressure	not available	
Density and/or relative density	0,980 - 1,020 g/ml	
Relative vapour density	not available	
Particle characteristics	not applicable	

### 9.2. Other information

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

Information not available.

#### 9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU) 1,50 % - 14,90 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

Information not available.

## 11. TOXICOLOGICAL INFORMATION

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 hazard classes as defined in Regulation (EC) No 1272/2008

#### 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 (Dermal):	> 5000 mg/kg CONIGLIO
LD50 (Oral):	5200 mg/kg RATTO
LC50 (Inhalation mists/powders):	> 5,5 mg/l RATTO

#### CYCLOPENTASILOXANE

LD50 (Dermal):	> 2000 mg/kg CONIGLIO
LD50 (Oral):	> 5000 mg/kg RATTO
LC50 (Inhalation vapours):	8,67 mg/l/4h RATTO

#### VP/DMAA ACRYLATES COPOLYMER

LD50 (Oral):	> 5000 mg/kg RATTO
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#### POLYQUATERNIUM-37

LD50 (Dermal):	> 5000 mg/kg ratto
LD50 (Oral):	> 2000 mg/kg ratto

#### SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class.

#### SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class.

#### RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction.

Contains:

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.

#### **11.2. Information on other hazards**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

### **12. ECOLOGICAL INFORMATION**

This product is dangerous for the environment and the aquatic organisms. In the long term, it has negative effects on the aquatic environment.

#### **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

CYCLOPENTASILOXANE

LC50 - for Fish	0,016 mg/l/96h ONCORHYNCHUS MYKISS
EC50 - for Crustacea	0,0029 mg/l/48h DAPHNIA MAGNA

POLYQUATERNIUM-37

LC50 - for Fish	> 1 mg/l/96h
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#### **12.2. Persistence and degradability**

VP/DMAPA ACRYLATES COPOLYMER

Degradability: information not available.

#### **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. Endocrine disrupting properties**

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

#### **12.7. 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.

The management of waste arising from the use or dispersal of this product must be organised in accordance with occupational safety regulations. See section 8 for possible need for PPE.

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

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/EU: 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 75

Point 70 CYCLOPENTASILOXANE Reg. REACH: 01-2119511367-43

Regulation (EU) 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 Regulation (EU) 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls

Information not available.

### 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>Skin Sens. 1</b>	Skin sensitization, 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>H317</b>	May cause an allergic skin reaction.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

Use descriptor system:

**PC 39** Cosmetics, personal care products.

### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, bioaccumulative and toxic
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PMT: Persistent, mobile and toxic
- PNEC: Predicted no effect concentration
- REACH: Regulation (EC) 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: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very persistent and very bioaccumulative
- vPvM: Very persistent and very mobile
- 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) 2020/878 (II Annex of REACH Regulation)
  4. Regulation (EC) 790/2009 (I Atp. CLP) 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) 201 6/1179 (IX Atp. CLP)
  13. Regulation (EU) 2017/776 (X Atp. CLP)
  14. Regulation (EU) 2018/669 (XI Atp. CLP)
  15. Regulation (EU) 2019/521 (XII Atp. CLP)
  16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
  17. Regulation (EU) 2019/1148
  18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
  19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
  20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
  21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
  22. Delegated Regulation (UE) 2022/692 (XVIII Atp. CLP)
  23. Delegated Regulation (UE) 2023/707
  24. Delegated Regulation (UE) 2023/1434 (XIX Atp. CLP)
  25. Delegated Regulation (UE) 2023/1435 (XX Atp. CLP)
  26. Delegated Regulation (UE) 2024/197 (XXI 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.