

SECTION1. Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Product code : BioPHURA Liquido per Capi delicati
Trades code : 3SLXXLX054100

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

Laundry detergent in the washing machine

Sectors of use:

Private households (= general public = consumers)[SU21], Public domain (administration, education, entertainment, services, craftsmen)[SU22]

Uses advised against

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

Biochimica S.p.A.
Via Roma, 49
40069 Zola Predosa (BO)
tel. +39 051 755269
fax +39 051 752707
email: info@biochimicaspa.it
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Indirizzo persona responsabile della SDS: sds@chimicahts.it

Produced by
Biochimica S.p.A.
Via Roma, 49
40069 Zola Predosa (BO)

1.4. Emergency telephone number

Biochimica Spa tel. +39 051755269 (Monday-Friday from 8.30 to 12.30 and from 13.30 to 17.30)

SECTION2. Hazards identification**2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:
GHS07

Hazard Class and Category Code(s):
Eye Irrit. 2

Hazard statement Code(s):
H319 - Causes serious eye irritation.
Classified according to Det Net/1354 report.

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:


 Pictogram, Signal Word Code(s):
 GHS07 - Warning

 Hazard statement Code(s):
 H319 - Causes serious eye irritation.

 Supplemental Hazard statement Code(s):
 not applicable

Precautionary statements:

General

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 - If eye irritation persists: Get medical advice/attention.

Contains (Reg.EC 648/2004):

5% < 15% anionic surfactants, < 5% perfumes, Phenoxyethanol, Pyrithione sodium, amphoteric surfactants, non-ionic surfactants, soap

2.3. Other hazards

The substance / mixture does NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

SECTION3. Composition/information on ingredients
3.1 Substances

Irrilevant

3.2 Mixtures

Refer to paragraph 16 for full text of hazard statements

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
Alcohols, C12-14, ethoxylated, sulfates, sodium salts	$\geq 5 < 7\%$	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 3, H412	N.A.	68891-38-3	500-234-8	01-2119488 639-16
Glycerol	$> 1 \leq 5\%$		n.a.	56-81-5	200-289-5	01-2119471 987-18-xxxx
Alcohols C12-14, ethoxylated (>2-5EO)	$\geq 3 \leq 5\%$	Acute Tox. 4, H302; Eye Dam. 1, H318		68439-50-9	931-014-3	
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	$> 1 \leq 5\%$	Eye Dam. 1, H318; Aquatic Chronic 3, H412	N.A.	147170-44-3	931-333-8	01-2119489 410-39
Potassium cocoate	$> 1 \leq 2\%$	Skin Irrit. 2, H315; Eye Irrit. 2, H319	N.A.	61789-30-8	263-049-9	N.A.

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
2-phenoxyethanol	> 1 <= 5%	Acute Tox. 4, H302; Eye Irrit. 2, H319	N.A.	122-99-6	204-589-7	01-2119488 943-21
Pyridine-2-thiol 1-oxide, sodium salt	<= 0,1%	Acute Tox. 4, H302; Acute Tox. 3, H311; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 100 10		3811-73-2	223-296-5	01-2119493 385-28

SECTION4. First aid measures

4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Take contaminated clothing Immediately off.

Wash immediately with plenty of running water and possibly with soap, the areas of the body that have, or are only suspected to have, come in contact with the product.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Ingestion:

Not hazardous. It's possible to give activated charcoal in water or liquid paraffin medicine

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

If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.

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

If you experience harmful symptoms, contact a physician immediately.

SECTION5. Firefighting measures

5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

SECTION6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear gloves and protective clothing

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provision of sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spill with earth or sand.

If the product has entered a watercourse in sewers or has contaminated soil or vegetation, notify it to the authorities.

Discharge the remains in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 For containment:

Rapidly recover the product, wear a mask and protective clothing

Recover the product for reuse, if possible, or for removal. Possibly absorb it with inert material.

Prevent it from entering the sewer system.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION7. Handling and storage

7.1. Precautions for safe handling

Avoid contact and inhalation of vapors

At work do not eat or drink.

Wear protective gloves/protective clothing/eye protection/face protection.

See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabeled containers.

Keep containers upright and safe by avoiding the possibility of falls or collisions.

Store in a cool place, away from sources of heat and direct exposure of sunlight.

7.3. Specific end use(s)

Private households (= general public = consumers):

Store in cool and dry places.

Public domain (administration, education, entertainment, services, craftsmen):
Handle with care.
Store in ventilated place away from heat sources,
Keep the container tightly closed.

SECTION8. Exposure controls/personal protection

8.1. Control parameters

No data available on the mixture.

Related to contained substances:

Alcohols C12-14, ethoxylated (>2-5EO):
No data available

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts:

Specification: DNEL (GLOB)

Parameter: Effects sistemici_Lungo termine_Dermale_Lavoratori

Value: 12.5 mg / kg

Specification: DNEL (GLOB)

Parameter: Effects sistemici_Lungo termine_Inalazione_Lavoratori

Value: 44 mg / m³

Specification: DNEL (GLOB)

Parameter: Effects sistemici_Lungo termine_Dermale_Popolazione

Value: 7.5 mg / kg

Specification: DNEL (GLOB)

Parameter: Effects sistemici_Lungo termine_Orale_Popolazione

Value: 7.5 mg / kg

Specification: PNEC STP (GLOB)

Value: 3000 mg / l

Specification: PNEC (GLOB)

Parameter: Fresh water

Value: 0.0135 mg / l

Specification: PNEC (GLOB)

Parameter: Aquamarine

Value: 0.00135 mg / l

Specification: PNEC (GLOB)

Parameter: Sediment (freshwater)

Value: 1 mg / kg

Specification: PNEC (GLOB)

Parameter: Sediment (seawater)

Value: 0.1 mg / kg

Specification: PNEC (GLOB)

Parameter: Soil

Value: 0.8 mg / kg

Parameter: sistemici_Lungo termine_Orale_Popolazione Effects

Value: 7.5 mg/kg

Specification: PNEC STP (GLOB)

Value: 3000 mg/l

Specification: PNEC (GLOB)

Parameter: fresh water

Value: 0.0135 mg/l

Specification: PNEC (GLOB)

Parameter: sea water

Value: 0.00135 mg/l

Specification: PNEC (GLOB)

Parameter: Sediment (freshwater)

Value: 1 mg/kg

Specification: PNEC (GLOB)
Parameter: Sediment (sea water)
Value: 0.1 mg/kg
Specification: PNEC (GLOB)
Parameter: Soil
Value: 0.8 mg/kg

Potassium cocoate:
No data available.

Pyridine-2-thiol 1-oxide, sodium salt:
No data available

- Substance: Alcohols, C12-14, ethoxylated, sulfates, sodium salts
DNEL
Systemic effects Long term Workers inhalation = 175 (mg/m³)
Systemic effects Long term Workers dermal = 2750 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 52 (mg/m³)
Systemic effects Long term Consumers dermal = 1650 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 15 (mg/kg bw/day)
PNEC
Sweet water = 0,24 (mg/l)
sediment Sweet water = 5,45 (mg/kg/sediment)
Sea water = 0,024 (mg/l)
sediment Sea water = 0,545 (mg/kg/sediment)
intermittent emissions = 0,071 (mg/l)
STP = 10 (mg/l)
ground = 7,5 (mg/kg ground)

- Substance: 2-phenoxyethanol
DNEL
Systemic effects Long term Workers inhalation = 8,07 (mg/m³)
Systemic effects Long term Workers dermal = 20,83 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 2,41 (mg/m³)
Systemic effects Long term Consumers dermal = 10,42 (mg/kg bw/day)
Systemic effects Long term Consumers oral = 9,23 (mg/kg bw/day)
Systemic effects Short term Consumers dermal = 9,23 (mg/kg bw/day)
Local effects Long term Workers inhalation = 8,07
Local effects Long term Consumers inhalation = 2,41 (mg/m³)
PNEC
Sweet water = 0,943 (mg/l)
sediment Sweet water = 7,237 (mg/kg/sediment)
Sea water = 0,094 (mg/l)
sediment Sea water = 0,724 (mg/kg/sediment)
STP = 24,8 (mg/l)
ground = 1,26 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:
Private households (= general public = consumers):
Open with caution. Close the container immediately after its use.
Adopt the appropriate protective measures.

Public domain (administration, education, entertainment, services, craftsmen):
Open with caution. Close the container immediately after its use.
Adopt the appropriate protective measures.

Individual protection measures:

(a) Eye / face protection
Not needed for normal use.

(b) Skin protection

(i) Hand protection
Not needed for normal use.

(ii) Other
Wear normal work clothing.

(c) Respiratory protection
Not needed for normal use.

(d) Thermal hazards
No hazard to report

Environmental exposure controls:

Use according to good working practices to avoid pollution into the environment.

SECTION9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	transparent liquid	
Odour	flowers	
Odour threshold	This property is not suitable for safety and product classification	
pH	8.5-8.8	
Melting point/freezing point	This property is not suitable for safety and product classification	
Initial boiling point and boiling range	This property is not suitable for safety and product classification	
Flash point	nonflammable	
Evaporation rate	This property is not suitable for safety and product classification	
Flammability (solid, gas)	This property is not suitable for safety and product classification	
Upper/lower flammability or explosive limits	This property is not suitable for safety and product classification	
Vapour pressure	This property is not suitable for safety and product classification	
Vapour density	This property is not suitable for safety and product classification	
Relative density	1.04	
Solubility	in water	
Water solubility	complete	
Partition coefficient: n-octanol/water	This property is not suitable for safety and product classification	
Auto-ignition temperature	This property is not suitable for safety and product classification	

Physical and chemical properties	Value	Determination method
Decomposition temperature	This property is not suitable for safety and product classification	
Viscosity	not determined	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

9.2. Other information

No data available.

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

None in particular

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

No toxicological tests have been performed on the mixture.

- (a) acute toxicity: based on available data, the classification criteria are not met.
- (b) skin corrosion/irritation based on available data, the classification criteria are not met.
- (c) serious eye damage/irritation: If brought into contact with eyes, the product, causes significant irritations which may last for more than 24 hours.
- (d) respiratory or skin sensitization: based on available data, the classification criteria are not met.
- (e) germ cell mutagenicity: based on available data, the classification criteria are not met.
- (f) carcinogenicity: based on available data, the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.

- (i) specific target organ toxicity (STOT) repeated exposure based on available data, the classification criteria are not met.
(j) aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:
LD50 (rat) Oral (mg/kg body weight) = 4100
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Alcohols C12-14, ethoxylated (>2-5EO):
LD50 (rat) Oral (mg/kg body weight) = 1200

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts:
Specification: LD0 (Cocamidopropyl betaine; Nr. CAS: 147170-44-3)
Routes of entry: Dermal
Test species: Rat
Value: > 2000 mg / kg
Specification: LD50 (Cocamidopropyl betaine; Nr. CAS: 147170-44-3)
Route of administration: Orally
Test species: Rat
Value: = 2335 mg / kg
LD50 (rat) Oral (mg/kg body weight) = 2335
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Potassium cocoate:
Contact with skin: Irritant.
Contact with eyes: Irritating.
Chronic Effects: None in normal use.
LD50 Oral Rat > 2000 mg / kg
LD50 (rat) Oral (mg/kg body weight) = 1500

2-phenoxyethanol:
LD50 (rat) Oral (mg/kg body weight) = 1260
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 5000

Pyridine-2-thiol 1-oxide, sodium salt:
LD50 (rat) Oral (mg/kg body weight) = 1100
LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000
CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 1,08

SECTION 12. Ecological information

12.1. Toxicity

The product has not been tested for environmental impact in the event of accidental release in the environment.

Related to contained substances:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:
LC50 (96h): 7.1 mg/l (Brachydanio rerio)
EC50 (48 h): 7.2 mg/l (Daphnia magna)
NOEC: 0.18 mg/l Daphnia magna (21 d)

Alcohols C12-14, ethoxylated (>2-5EO):
No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts:
Specification: LC0 (Cocamidopropyl betaine; Nr. CAS: 147170-44-3)

Parametro: Fish
Leuciscus idus melanotus
Value = 2.5 mg / l
For. test: 48 h
Specification: EC50 (Cocamidopropyl betaine; Nr. CAS: 147170-44-3)
Parametro: Daphnia
Daphnia magna
Value = 45 mg / l
For. of the test: 24 h
Specification: EC50 (Cocamidopropyl betaine; Nr. CAS: 147170-44-3)
Parametro: Algae
Scenedesmus subspicatus
Value = 11.7 mg / l
For. test: 72 h
C(E)L50 (mg/l) = 2,5

Potassium cocoate:
Ecotoxicity
Toxicity to fish LC50 > 1 mg / L
Toxicity to Daphnia EC50 > 1 mg / L
Toxicity to algae EC50 > 1 mg / l

2-phenoxyethanol:
LC50 (96h): > 100 mg/l Leuciscus idus
EC50 (48h): > 500 mg/l
IC50 (72h): > 500 mg/l

Pyridine-2-thiol 1-oxide, sodium salt:
LC50 (96h) = 1300 ug/L Fish
LC50 (48h) = 22.0 µg/L Invertebrates
NOEC (120h) = 5.46mg/l Algae and cyanobacteria
EC50 (120h) = 28.9 mg/l Algae and cyanobacteria
EC50 v(3h) = 19 mg/L microorganism

Use according to good working practices to avoid pollution into the environment.

12.2. Persistence and degradability

No data available for the mixture.

Related to contained substances:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:
Readily biodegradable.

Alcohols C12-14, ethoxylated (>2-5EO):
Readily biodegradable.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts:
This surfactant complies with the biodegradability criteria established by Regulation (EC) No. 648/2004 on detergents.
readily biodegradable

Potassium cocoate:
Biodegradability:
Surfactant complies with the biodegradability criteria established by EC Regulation 648/2004 on detergents

2-phenoxyethanol:
Readily biodegradable.

Pyridine-2-thiol 1-oxide, sodium salt:
Readily biodegradable

12.3. Bioaccumulative potential

No data available for the mixture.

Related to contained substances:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts:
The product has a low bioaccumulation potential in aquatic organisms.

Alcohols C12-14, ethoxylated (>2-5EO):
Minimal

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts:
Not foreseeable potential for bioaccumulation.

Potassium cocoate:
No data available.

2-phenoxyethanol:
BCF: 0.349

Pyridine-2-thiol 1-oxide, sodium salt:
No data available

12.4. Mobility in soil

No data available for the mixture.

Related to contained substances:
Alcohols, C12-14, ethoxylated, sulfates, sodium salts:
The product has a reduced mobility in soil.

Alcohols C12-14, ethoxylated (>2-5EO):
No data available.

1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts:
No data available

Potassium cocoate:
No data available.

2-phenoxyethanol:
Log Koc: 1.6

Pyridine-2-thiol 1-oxide, sodium salt:
No data available

12.5. Results of PBT and vPvB assessment

The substance / mixture does NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

12.6. Other adverse effects

No adverse effects

Regulation (EC) No 2006/907 - 2004/648

The surfactant (s) contain (s) in this formulation comply (ies) with the criteria set out in Regulation (EC) biodegradability/648/2004 on detergents. All supporting data shall be kept at the disposal of the competent authorities of the Member States and will be provided, at their explicit request or at the request of a manufacturer of the formulation, the above authority.

SECTION13. Disposal considerations**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION14. Transport information**14.1. UN number**

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping name

None

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

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

It is not intended to carry bulk

SECTION15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Reg. 648/2004/EC (detergents)
Regulation (EC) No 1907/2006 (REACH)
Regulation (EC) no 1272/2008 (CLP)
Regulation (EC) no 790/2009, 2012/18/EU
Directive (cd. Seveso III)

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information**16.1. Other information**

Description of the hazard statements exposed to point 3

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H412 = Harmful to aquatic life with long lasting effects.

H302 = Harmful if swallowed.

H319 = Causes serious eye irritation.

H311 = Toxic in contact with skin.

H332 = Harmful if inhaled.

H400 = Very toxic to aquatic life.

H410 = Very toxic to aquatic life with long lasting effects.

Classification based on data of all mixture components

Main normative references:

Regulation 2008/1272/EC

Regulation 2015/830/EC

The skin and/or eye classification of this product was derived using bridging principles (such as dilution, interpolation within one hazard category or substantially similar mixtures; with or without expert judgement) following Article 9(3) and Article 9(4) of Regulation (EC) No 1272/2008. DetNet logging number: 1354

Link ECHA (source of information on chemical substances produced or imported in Europe)

<https://echa.europa.eu/information-on-chemicals>

MSDS provided by the customer and on the same raw material

*** This Board cancels and replaces any previous edition.