

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

Product code : BioPHURA liquido BAGNO
Trades code : 3SLXXDX038700

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

Cleaner descaler

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
www.biochimicaspa.it

Indirizzo persona responsabile della SDS: sds@chimicahts.it

1.4. Emergency telephone number

CAVp Osp. Pediatrico Bambino Gesù, Piazza Sant'Onofrio, 4 00165 Roma - Tel.: 06 68593726
Az. Osp. Univ. Foggia, V.le Luigi Pinto, 1 71122 Foggia - Tel.: 0881-732326
Az. Osp. "A. Cardarelli", Via A. Cardarelli, 9 80131 Napoli - Tel.: 081-7472870
CAV Policlinico "Umberto I", V.le del Policlinico, 155 00161 Roma - Tel.: 06-49978000
CAV Policlinico "A. Gemelli", Largo Agostino Gemelli, 8 00168 Roma - Tel.: 06-3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica, Largo Brambilla, 3 50134 Firenze - Tel.: 055-7947819
CAV Centro Nazionale di Inf. Tossicologica, Via Salvatore Maugeri, 10 27100 Pavia - Tel.: 0382-24444
Osp. Niguarda Ca' Granda Piazza Ospedale Maggiore, 3 20162 Milano - Tel.: 02-66101029
Azienda Ospedaliera Papa Giovanni XXII, Piazza OMS, 1 24127 Bergamo - Tel.: 800883300

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.

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% perfumes, non-ionic surfactants

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
Citric acid	> 1 < 3%	Eye Irrit. 2, H319	N.A.	77-92-9	201-069-1	01-2119457 026-42
D-Glucopyranose, oligomers, decyl octyl glycosides	> 1 < 2%	Eye Dam. 1, H318	n.a.	68515-73-1	500-220-1	01-2119488 530-36
Lactic acid	> 1 < 2%	Skin Irrit. 2, H315; Eye Dam. 1, H318	N.A.	50-21-5	201-196-2	01-2119548 400-48-0001

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 eye irritation persists: Get medical advice/attention.

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

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

SECTION 7. 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.

SECTION 8. Exposure controls/personal protection**8.1. Control parameters**

No data available on the mixture.

Related to contained substances:

D-Glucopyranose, oligomers, decyl octyl glycosides:
DN (M) EL worker
DNEL of long-term dermal (systemic) 595.000 mg/kg bw/day
DNEL of long-term inhalation (systemic) 420 mg/m
DN (M) EL General Population:
DNEL of long-term oral (systemic) 35.7 mg/kg bw/day
DNEL of long-term dermal (systemic) 357.000 mg/kg bw/day

DNEL of long-term inhalation (systemic) 124 mg/m³

PNEC:

PNEC d, fresh water 19acqua 0.1 mg/L 10 assessment factor

PNEC d 19acqua, seawater 0.01 mg/L 100 assessment factor

PNEC d 19acqua, intermittent releases 0.27 mg/L 100 assessment factor

PNEC deposit, 0.487 freshwater mg/kg of Factor evaluation n/a

PNEC deposit, seawater 0.048 mg/kg of Factor evaluation n/a

PNEC 0.654 mg/kg soil factor of 1000 evaluation

PNEC wastewater treatment plant (STP) 560 mg/L evaluation Factor 1

PNEC air

PNEC secondary poisoning 111.11 mg/kg food assessment Factor 90

Citric acid

PNEC

Sweet water = 0,44 (mg/l)

sediment Sweet water = 34,6 (mg/kg/sediment)

Sea water = 0,044 (mg/l)

sediment Sea water = 3,46 (mg/kg/sediment)

STP = 1000 (mg/l)

ground = 33,1 (mg/kg ground)

Lactic acid

DNEL

Systemic effects Short term Consumers oral = 35,4 (mg/kg bw/day)

Local effects Short term Workers inhalation = 592 (mg/m³)

Local effects Short term Consumers inhalation = 296 (mg/m³)

PNEC

Sweet water = 1,3 (mg/l)

STP = 10 (mg/l)

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	liquid	
Odour	fresh, citrus	
Odour threshold	undefined	
pH	> 2	
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	data not available	ASTM D92
Evaporation rate	this property is not suitable for safety and product classification	
Flammability (solid, gas)	data not available	
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	data not available	
Relative density	1.014 kg/l	
Solubility	in water	
Water solubility	miscible	
Partition coefficient: n-octanol/water	data not available	
Auto-ignition temperature	this property is not suitable for safety and product classification	
Decomposition temperature	this property is not suitable for safety and product classification	
Viscosity	data not available	
Explosive properties	not classified as explosive, does not contain explosives according to reg. CLP Art. (14 (2))	
Oxidising properties	the product is not an oxidizing substance	

9.2. Other information

No data available.

SECTION10. 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

If in contact with bases may cause strong exothermic reactions

10.4. Conditions to avoid

Avoid contact with basic substances

10.5. Incompatible materials

Basics

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:

Citric acid:

LD50 (rat) Oral (mg/kg body weight) = 5400

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

D-Glucopyranose, oligomers, decyl octyl glycosides:

Reproductive toxic method: male/female Rat (screening of a 19 intera generation, oral gavage: 0, 100, 300, 1000 mg/kg bw, aspect: 2 settimane before 19 accoppiamento and after, until the day of the sacrifice (study 53 days, 4 days post partum). (daily), OECD guidelines 421.

Search results: NOAEL (P): 1000 mg/kg bw/day (nominal) (male/female) (No treatment-related effect.)

Method: oral, rat: gavage, 0, 100, 300, 1000 mg/kg bw, aspect: days 6-15 of gestation (daily), OECD Guideline 414
 Search results: NOAEL (maternal toxic): 1000 mg/kg bw/day (nominal) (no effects related to treatment)
 NOAEL (toxic development): 1000 mg/kg bw/day (nominal) (no effects related to treatment)
 STOT repeated exposure-method: rats (male/female), subchronic (oral, gavage), 0, 250, 500, 1000 mg/kg bw (nominal in water), exposure: 90 days (daily), EU b. 26 method
 Search results: NOAEL: 100 mg/kg bw/day (nominal) (male/female) (inflammation and ulceration of the mucous membranes of the first layer of the intestine due to bolus administration and irritating potential of test substance.)
 LD50 (rat) Oral (mg/kg body weight) = 5000
 LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

Lactic acid:

LD50 (rat) Oral (mg/kg body weight) = 3543

LD50 Dermal (rat or rabbit) (mg/kg body weight) = 2000

CL50 Inhalation (rat) vapour/dust/mist/fume (mg/l/4h) or gas (ppmV/4h) = 7,94

SECTION12. 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:

Citric acid:

Aquatic toxicity

Specification: LC50.

Parameter: Fish.

Leuciscus idus melanotus.

Value = 440 mg/l.

Test period: 48 h.

Specification: LC50.

Parameter: Daphnia.

Daphnia magna.

Value = 1535 mg/l.

Test period: 12:0 am.

Specification: LC50.

Parameter: Alga.

Scenedesmus quadricauda.

Value = 425 mg/l.

Test period: 168 h.

Specification: LC50.

Parameter: Bacteria.

Pseudomonas.

Value > 10000 mg/l.

Test period: 16 h.

C(E)L50 (mg/l) = 425

D-Glucopyranose, oligomers, decyl octyl glycosides:

Toxic acute (short term)

Fish LC50 (83d, *Brachydanio rerio*) = 1-10 mg/L

Daphnia EC50 (48 h *Daphnia magna*) = 1-100 mg/L

Algae EC50 (72 h, *Scenedesmus subspicatus*) = 1-100 mg/L

Toxic chronic (long-term)

Fish (*Brachydanio rerio*) NOEC = 1.8 mg/L

Daphnia NOEC (*Daphnia magna*) = 1 mg/L

Lactic acid:

LC50, 96 h, *Oncorhynchus mykiss*: 130 mg/l
EC50, 48 h, *Daphnia magna*: 250 mg/l
EC50, 72 h, *Pseudokirchneriella subcapitata*: > 2.8 mg/l

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:

Citric acid:
Specification: Biodegradabilit.
Value > 97%
Test period: 28 days.
Readily biodegradable.

D-Glucopyranose, oligomers, decyl octyl glycosides:
Activated sludge, adapted, not OECD 301E line guide, readily biodegradable, 88% after 28giorni (DOC removable)

Lactic acid:
Rapidly biodegradable (OECD test).
BOD = 0.45 mgt/O2/mg.
BOD20 = 0.60 mgt/O2/mg.
COD = 0.90 mgt/O2/mg.

12.3. Bioaccumulative potential

No data available for the mixture.

Related to contained substances:

Citric acid:
BCF: 3.2 L/kg

D-Glucopyranose, oligomers, decyl octyl glycosides:
Log Kow <-0.07

Lactic acid:
No data available

12.4. Mobility in soil

No data available for the mixture.

Related to contained substances:

Citric acid:
No data available

D-Glucopyranose, oligomers, decyl octyl glycosides:
log Koc = 1.7 at 25 C

Lactic acid:
log Koc < 1.32

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)
Decree 2/2/2002 n. 25 (risks related to chemical agents at work)
D.M. 2/26/2004 Work (occupational exposure limits)
D.M. 4/3/2007 (implementation of Directive 2006/8/EC)
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**

Points modified compared to previous release: 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 4.1. Description of first aid measures, 4.2. Most important symptoms and effects, both acute and delayed, 4.3. Indication of any immediate medical attention and special treatment needed, 6.3. Methods and material for containment and cleaning up, 8.1. Control parameters, 8.2. Exposure controls, 10.1. Reactivity, 11.1. Information on toxicological effects, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of the hazard statements exposed to point 3

H319 = Causes serious eye irritation.
H318 = Causes serious eye damage.
H315 = Causes skin irritation.

Classification based on data of all mixture components

Main normative references:
Regulation 2008/1272/EC
Regulation 2015/830/EC

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.