

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

Product code : LIMONELLO SUPER CONCENTRATO PIATTI GEL
Trades code : 3SLXXSX079801

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

Hand-dishwashing detergent

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)
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email: info@biochimicaspa.it
www.biochimicaspa.it

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

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.
Classified according to Det Net/435 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):
EUH208 - Contains Methylchloroisoithiazolinone, Methylisothiazolinone. May produce an allergic reaction.

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, Methylchloroisoithiazolinone, Methylisothiazolinone, 2-BROMO-2-NITROPROPANE-1,3-DIOL, amphoteric surfactants, Citral

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
Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts	> 5 <= 10%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Dam. 1, H318	N.A.	68411-30-3	270-115-0	01-2119489 428-22-0046
alcohols, c12-14, ethoxylated, sulfates, sodium salts	> 5 <= 10%	Skin Irrit. 2, H315; Eye Dam. 1, H318; Aquatic Chronic 3, H412	N.A.	68891-38-3	500-234-8	01-2119488 639-16
1-Propanaminium, 3-amino-N-(carboxymethyl)-N,N-dimethyl-, N-(C8-18 and C18-unsatd. acyl) derivs., inner salts	> 1 <= 5%	Eye Dam. 1, H318; Aquatic Chronic 3, H412	N.A.	147170-44-3	931-333-8	01-2119489 410-39

Substance	Concentration	Classification	Index	CAS	EINECS	REACH

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

Aucune donnée disponible pour le mélange tel quel.

Related to contained substances:

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts:

National occupational exposure limits

No data available

European national exposure limits

no data available

Derived no effect level (DNEL)

Workers, Dermal, Acute Exposure / short-term - systemic effects:

Not applicable / not applicable

Workers, Inhalation, Acute exposure / short-term - systemic effects:

Not applicable / not applicable

Workers, Dermal, Acute Exposure / short-term - Local effects:

Not applicable / not applicable

Workers, Inhalation, Acute exposure / short-term - Local effects:

Not applicable / not applicable

Workers, Dermal, long-term exposure - systemic effects: 170 mg / kg

in reference to body weight and day

Workers, Inhalation, long-term exposure - systemic effects: 12 mg / m³

Workers, Dermal, long-term exposure - local effects:

Not applicable / not applicable

Workers, Inhalation, long-term exposure - local effects: 12 mg / m³

Consumers, Dermal, Acute Exposure / short-term - systemic effects:

Not applicable / not applicable

Consumers, Inhalation, Acute exposure / short-term - systemic effects:

Not applicable / not applicable

Consumers, Oral, Acute Exposure / short-term - systemic effects:

Not applicable / not applicable

Consumers, Dermal, Acute Exposure / short-term - Local effects:

Not applicable / not applicable

Consumers, Inhalation, Acute exposure / short-term - Local effects:

Not applicable / not applicable

Consumers, Dermal, long-term exposure - systemic effects: 85 mg / kg

in reference to body weight and day

Consumers, Inhalation, long-term exposure - systemic effects: 3 mg / m³

Consumers, Oral, Long term exposure - systemic effects: 0,85 mg / kg

in reference to body weight and day

Consumers, Dermal, long-term exposure - local effects:

Not applicable / not applicable

Consumers, Inhalation, long-term exposure - local effects: 3 mg / m³

expected no effect concentration (PNEC)

Fresh water: 0.268 mg / l

sea water: 0.0268 mg / l

temporary spill: 0.0167 mg / l

purification plant: 3.43 mg / l

Sediment freshwater: 8.1 mg / kg

in reference to the dry mass

marine sediment: 8.1 mg / kg

in reference to the dry mass

Soil: 35 mg / kg

in reference to the dry mass

Food:

Not applicable / not applicable

alcohols, c12-14, ethoxylated, sulfates, sodium salts:

Dnel:

-Workers, in contact with skin, chronic effects, value: 2750 mg/kg;

-Workers, inhalation, chronic effects, value: 175 mg/m³;

-Consumers, in contact with skin, chronic effects, value: 1650 mg/kg;

-Consumers, inhalation, chronic effects, value: 52 mg/m³;
-Consumers are inhaled, chronic effects, value: 15 mg/kg.
PNEC:
-Fresh water 0.24 mg/l
-Seawater 0.024 mg/l
-0.071 mg/l water-PNEC Aqua (intermittent release)-fatty Alcohol ether sulphate 10000 mg/l PNEC STP-freshwater Sediment
5.45 mg/Kg
-Marine sediment 0.545 mg/Kg
-0.946 mg/Kg Soil

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

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.

SECTION 9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Appearance	green transparent liquid	
Odour	citrus scent	
Odour threshold	not defined	
pH	5.7-6.4	
Melting point/freezing point	This property is not suitable for safety and product classification	
Initial boiling point and boiling range	data not available	
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	

Physical and chemical properties	Value	Determination method
Vapour density	data not available	
Relative density	1.032	
Solubility	in water	
Water solubility	complete	
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.

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

Nobody 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:

Benzenesulfonic acid, C10-13 Alkyl derivs., sodium salts:

Acute toxicity

Acute oral toxicity

LD50 oral rat: > 2,000 mg / kg; OECD Test Guideline 401

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

LD50 rat: > 300 to 2,000 mg / kg; OECD Test Guideline 401

Target Organs: Gastrointestinal tract

Symptoms: Drowsiness, diarrhea, difficulty breathing

Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts, >=65%. Harmful if swallowed.

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

LD50 rat: > 2,000 mg / kg; OECD Test Guideline 401

Target Organs: Gastrointestinal tract

Symptoms: Drowsiness, diarrhea, difficulty breathing

Substance to be tested: benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts, <65% According to data available to the classification criteria are not met.

Acute toxicity by inhalation benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

the test does not need justification: negligible or unlikely routes of exposure

Acute dermal toxicity benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

LD50 rat: > 2,000 mg / kg; OECD Test Guideline 402

Symptoms: Local effects, crust formation (literature value)

According to available data the classification criteria are not met.

Skin corrosion / irritation S

kin irritation benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

rabbit: irritating OECD Test Guideline 404

(literature value)

Causes skin irritation.

Serious eye damage / serious eye irritation

Irritating to eyes

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rabbit: May cause irreversible eye damage.; OECD Test Guideline 405

(Value of literature)

Causes severe eye injury.

Respiratory or skin sensitization

Sensitization

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Maximisation test guinea pig: not sensitizing; OECD Test Guideline 406

Based on the available data the classification criteria are not met.

Germ cell mutagenicity

Genotoxicity in vitro

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

In vitro assays revealed no mutagenic effects

(Value of literature)

In vivo genotoxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

In vivo studies revealed no mutagenic effects

(Value of literature)

Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Based on the available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

The substance turned out to be non-genotoxic, so we should not expect a carcinogenic potential.

Reproductive Toxicity

Reproductive Toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rat, oral, 2 years

NOAEL ((parent)): 350 mg / kg (in reference to body weight and day)

NOAEL (F1): 350 mg / kg (in reference to body weight and day)

NOAEL (F2): 350 mg / kg (in reference to body weight and day)

(Value of literature)

observation of group

Observation of reproductive toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Based on the available data the classification criteria are not met.

Teratogenicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rat, oral, 20 days

NOAEL: 300 mg / kg (in reference to body weight and day)

NOAEL (pregnant female): 300 mg / kg (in reference to body weight and day)

(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

mice, oral, 20 days

NOAEL: 300 mg / kg (in reference to body weight and day)

NOAEL (pregnant female): 2 mg / kg (in reference to body weight and day)

(Value of literature)

Observations-Teratogenicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

According to data available the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

The substance or mixture is not classified as an organ toxicant target for single exposure.

Specific target organ toxicity (STOT) - repeated exposure

Observations

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

The substance or mixture is not classified as a target organ toxicant

Specifically, repeated exposure.

Repeated dose toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Rat, oral, 28 days

NOAEL: 125 mg / kg (in reference to body weight and day)

LOAEL: 250 mg / kg (in reference to body weight and day)

Target organs: blood, liver, heart, thymus

Symptoms: limited increase in body weight, diarrhea

(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

rat feeding study, 6 months

NOAEL: 40 mg / kg (in reference to body weight and day)

LOAEL: 115 mg / kg (in reference to body weight and day)

Target Organs: Blood, Kidney, blind

Symptoms: limited increase in body weight, diarrhea

(Value of literature)

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

rat drinking water; 9 months

NOAEL: 85 mg / kg (in reference to body weight and day)

LOAEL: 145 mg / kg (in reference to body weight and day)

Target Organs: Blood

Symptoms: limited increase in body weight

Aspiration hazard

Aspiration toxicity

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

not applicable

Toxicological information

benzenesulfonic acid, C10-13-alkyl derivatives, sodium salts:

Toxicokinetics

it is assumed that the substance is bioavailable for oral intake.

the substance is metabolized and eliminated secretion

the substance is not well absorbed through the skin

alcohols, c12-14, ethoxylated, sulfates, sodium salts:

Acute oral toxicity:

LD50> 5000 mg / kg body weight

Method: OECD 401

GHS: No category

Acute inhalation toxicity:

Does not require labeling as harmful or toxic by inhalation

GHS: No category

Acute dermal toxicity:

LD50> 2000 mg / kg body weight

Method: OECD 402

GHS: No category

Skin irritation:

irritating

Method: OECD 404

GHS: Category 2

Eye irritation:

extremely irritating

Method: OECD 405

GHS: Category 1

sensitization:

Skin sensitization: not sensitizing.

Method: OECD 406

GHS: No category

mutagenicity

In vitro mutagenesis:

not mutagenic

Method: OECD 471

GHS: No category

carcinogenicity

Not classifiable as a human carcinogen. (Appraisal expert)

GHS: No category

reproductive toxicity

Non-toxic to reproduction (appraisal expert)

GHS: No category

specific target organ toxicity (STOT) - single exposure

The substance or mixture is not classified as specific target organ toxicant, single exposure.

GHS: No category

specific target organ toxicity (STOT) - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, for display repeated.

GHS: No category

Danger Aspiration

There is no classification for aspiration toxicity

GHS: No category

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

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:

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts:

Toxicity to fish

LC50 (96 h) *Lepomis macrochirus* (fish-salt Bluegill): > 1-10 mg/l; Static test; US EPA 1975

(value of literature)

Toxicity to fish chronic Toxicity-

(28 d) *Lepomis macrochirus* (fish-salt Bluegill): > 0.1-1 mg/l; Speed of growth; 28 d; Ecosystem model

(value of literature)

Toxicity to daphnia and other aquatic invertebrates.

(48 h) *Daphnia magna* (water flea): > 1-10 mg/l; Static test; OECD TEST GUIDELINE 202

(value of literature)

Toxicity to daphnia and other aquatic invertebrates. -Chronic Toxicity

NOEC (32 d) *Elimia*: 1-10 mg/l >; cancer care; 32 d; Ecosystem model;

(value of literature)

Toxicity for aquatic plants

NOEC (28 d) *Elodea canadensis*: > 4 mg/l; Ecosystem model;

(value of literature)

C(E)L50 (mg/l) = 0,2

alcohols, c12-14, ethoxylated, sulfates, sodium salts:

Toxicity

Acute fish toxicity: LC50 > 10-100 mg/l = product &lt;.

Method: acute fish Toxicity in accordance with the OECD 203.

GHS category 3 (not implemented in EU) Acute Toxicity to invertebrates: EC50 > 10-100 mg/l = product &lt;.

Method: acute toxicity for daphnia in accordance with OECD method 202.

GHS category 3 (not implemented in EU) Toxicity to aquatic plants: EC50/algae > 10-100 mg/l = product &lt;.

Method: OECD 201/DIN 38412 part 9 GHS category 3 (not implemented in EU) acute bacterial Toxicity: EC0 > product 100 mg/l.

Method: DIN 38412 Part 27 (ROBRA testing, conforms with OECD 209) Toxicity to fish chronic: NOEC > 1-&lt; = product 10 mg/l. (calculation) GHS: no category chronic Toxicity to invertebrates: NOEC > 1-10 mg/l = product &lt;. (calculation)

GHS: no category

C(E)L50 (mg/l) = 10

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

bronopol:
C(E)L50 (mg/l) = 23
NOEC (mg/l) = 21,5

2-BROMO-2-NITROPROPANE-1,3-DIOL
**** Not translated ****

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:

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts:
Readily biodegradable; > 60%; 28 d; aerobic; OECD TEST GUIDELINE 301 B

alcohols, c12-14, ethoxylated, sulfates, sodium salts:

primary degradation:

The surfactants contained in this preparation, as required by EU legislation for substances 82/242 detergents (Nonionic surfactants) and 82/243 / EEC (anionic surfactants) on average at least 90% biodegradable.

Ultimate biodegradation:

Quick and easy to degrade: in tests for ease of degradability, all substances contained in the product achieve > 60% BOD / COD or CO2 liberation, or > 70% DOC reduction. This threshold values provided for "degrading dabile easily / readily degradable" (eg. OECD 301) methods.

GHS: No category

The surfactant (s) (s) (s) contained in this product is (are) in compliance with (i) with the biodegradability criteria established by Regulation (EC) No. 648/2004 on detergents. All supporting data are available to the competent authorities of the Member States and will be provided, at their direct request or at the request of a producer of the formulation, to the said authorities.

Method: Annex III, Part A

Persistence: Not available.

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

12.3. Bioaccumulative potential

No data available for the mixture.

Related to contained substances:

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts:
Pimephales promelas (Fathead); 192 h; OECD TEST GUIDELINE 305 E
(value of literature)
Does not accumulate significantly in organisms.

alcohols, c12-14, ethoxylated, sulfates, sodium salts:
Potential to bioaccumulate this substance does not considered persistent, bioaccumulative or toxic (PBT). (Expert Evaluation)
This substance is not considered to be very persistent and very bioaccumulating (vPvB).
GHS: no category

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

12.4. Mobility in soil

No data available for the mixture.

Related to contained substances:

Benzensulfonic acid, C10-13 Alkyl derivs., sodium salts:
Soil/sludge sedimentation tank
Slightly mobile in soils

alcohols, c12-14, ethoxylated, sulfates, sodium salts:
Not available.

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

SECTION 14. 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

SECTION 15. 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). REGULATION (EU) No 1357/2014 - waste:
HP4 - Irritant — skin irritation and eye damage

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: 1.2. Relevant identified uses of the substance or mixture and uses advised against, 2.1. Classification of the substance or mixture, 2.2. Label elements, 2.3. Other hazards, 3.2 Mixtures, 4.3. Indication of any immediate medical attention and special treatment needed, 6.1. Personal precautions, protective equipment and emergency procedures, 7.1. Precautions for safe handling, 8.1. Control parameters, 10.5. Incompatible materials, 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

H302 = Harmful if swallowed.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H412 = Harmful to aquatic life with long lasting effects.

Classification based on data of all mixture components

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

Test with logging number: Det Net/435

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.