

* Petrosol Citro

Date revised: 13.09.2023

8600402906

Version: 11 / GB

Master No. MA-211

Print date: 07.05.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

Petrosol Citro

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

Use of the substance/mixture

Cleaning material/ Detergent

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

BÜFA Cleaning GmbH & Co. KG

August-Hanken-Str. 30

26125 Oldenburg

Telephone no. +49 441 9317 0

Fax no. +49 441 9317 100

Information provided Department product safety / +49 441 9317 108

by / telephone

E-Mail sds-cleaning@buefa.de

1.4. Emergency telephone number

Poison Information Center Goettingen: +49 551 19240

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

Classification (Regulation (EC) No. 1272/2008)

Eye Irrit. 2 H319

Aquatic Chronic 3 H412

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008

For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008**Hazard pictograms****Signal word**

Warning

Hazard statements

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

P280.9 Wear eye protection.

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.

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Sensitising substances

EUH208 Contains (R)-p-mentha-1,8-diene, May produce an allergic reaction.

2.3. Other hazards

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients *******Citric acid, anhydrous**

CAS No.	77-92-9				
EINECS no.	201-069-1				
Registration no.	01-2119457026-42-XXXX				
Concentration	>= 10	<	20	%	
Eye Irrit. 2	H319				
STOT SE 3	H335				

ethanol

CAS No.	64-17-5				
EINECS no.	200-578-6				
Registration no.	01-2119457610-43-XXXX				
Concentration	>= 1	<	10	%	
Flam. Liq. 2	H225				
Eye Irrit. 2	H319				

Isotridecanol, ethoxylated (5-20 EO)

CAS No.	69011-36-5				
EINECS no.	500-241-6				
Registration no.	01-2119976362-32-XXXX				
Concentration	>= 1	<	3	%	
Acute Tox. 4	H302				
Eye Dam. 1	H318				

Concentration limits (Regulation (EC) No. 1272/2008)

	Eye Irrit. 2	H319	>= 1 < 10 %
	Eye Dam. 1	H318	>= 10
ATE	oral	1.000	mg/kg

Isotridecanol, ethoxylated

CAS No.	69011-36-5				
EINECS no.	931-138-8				
Registration no.	IRRELEVANT (POLYMER)				
Concentration	>= 1	<	3	%	
Acute Tox. 4	H302				
Eye Dam. 1	H318				

Concentration limits (Regulation (EC) No. 1272/2008)

	Eye Irrit. 2	H319	> 1 < 10 %
	Eye Dam. 1	H318	>= 10 %
ATE	oral	555,56	mg/kg

(R)-p-mentha-1,8-diene

CAS No.	5989-27-5
EINECS no.	227-813-5

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Registration no.	01-2119529223-47-XXXX				
Concentration	>=	0,25	<	1	%
Aquatic Chronic 1	H410				
Aquatic Acute 1	H400				
Flam. Liq. 3	H226				
Skin Irrit. 2	H315				
Skin Sens. 1	H317				
Asp. Tox. 1	H304				

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 M = 1

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

CAS No.	68424-85-1				
EINECS no.	270-325-2				
Concentration	>=	0,25	<	1	%
Acute Tox. 4	H302				
Skin Corr. 1B	H314				
Aquatic Acute 1	H400				
Aquatic Chronic 1	H410				

Concentration limits (Regulation (EC) No. 1272/2008)

Aquatic Acute 1 H400 M = 10

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1. Description of first aid measures****After inhalation**

Ensure supply of fresh air. In the event of symptoms take medical treatment.

After skin contact

Wash off immediately with soap and water.

After eye contact

In case of contact with the eyes rinse thoroughly with plenty of water or with an eye-cleaning solution. Seek medical advice immediately.

After ingestion

Rinse out mouth and give plenty of water to drink. Seek medical advice immediately.

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

There is no further relevant information available

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

There is no further relevant information available

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry powder, Water spray jet

5.2. Special hazards arising from the substance or mixture

If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

5.3. Advice for firefighters

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures

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6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

6.2. Environmental precautions

Do not allow to enter drains or waterways.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). When picked up, treat material as prescribed under Section 13 "Disposal".

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage**7.1. Precautions for safe handling**

Observe the usual precautions for handling chemicals.

7.2. Conditions for safe storage, including any incompatibilities

Emptied containers may contain product residues and therefore must be handled with care. Reuse only after appropriate cleaning. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3. Specific end use(s)

No information available

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limit values****ethanol**

List	EH40			
Type	WEL			
Value	1920	mg/m ³	1000	ppm(V)

8.2. Exposure controls**General protective and hygiene measures**

Observe the usual precautions for handling chemicals. Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

Respiratory protection

Not necessary.

Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	>=	0,6	mm
Breakthrough time	>	480	min

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leaktightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Eye protection

Tightly fitting safety glasses

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Body protection

Clothing as usual in the chemical industry.

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

Physical state	liquid		
Colour	orange		
Odour	of lemon		
Melting point			
Remarks	not determined		
Boiling point			
Remarks	not determined		
Flammability			
evaluation	not determined		
Explosion limits			
Remarks	not determined		
Flash point			
Value	> 100		°C
Ignition temperature			
Remarks	not determined		
Thermal decomposition			
Remarks	Not relevant		
pH value			
Value	appr. 2,5		
Concentration/H ₂ O	1	%	
Viscosity			
Value	appr. 20		s
Method	DIN 53211 4 mm		
Solubility in other solvents			
	not determined		
Octanol/water partition coefficient (log Pow)			
Remarks	Not relevant		
Vapour pressure			
Remarks	not determined		
Density			
Value	appr. 1,05		kg/l
Vapour density			
Remarks	not determined		
Particle characteristics			
Remarks	irrelevant (liquid)		
9.2. Other information			
Odour threshold			
Remarks	No data available		
Solubility in water			
Remarks	miscible		

SECTION 10: Stability and reactivity

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10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

10.2. Chemical stability

The product is stable.

10.3. Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

10.4. Conditions to avoid

Protect from heat and direct sunlight.

Thermal decomposition

Remarks Not relevant

10.5. Incompatible materials

None known

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity**

ATE	>	10.000	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)		
Based on available data, the classification criteria are not met.			

Acute oral toxicity (Components)**Isotridecanol, ethoxylated (5-20 EO)**

Reference substance	Isotridecanol, ethoxylated (5-20 EO)		
Species	rat		
LD50	appr.	1000	mg/kg
Source	Literature value		

Isotridecanol, ethoxylated

ATE	500	mg/kg
Source	Estimated value	

Citric acid, anhydrous**alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))**

Reference substance	alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))		
Species	rat		
LD50	397,5	mg/kg	

Acute dermal toxicity

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

Acute dermal toxicity (Components)**Citric acid, anhydrous****Isotridecanol, ethoxylated (5-20 EO)**

Reference substance	Isotridecanol, ethoxylated (5-20 EO)		
Species	rabbit		
LD50	>	2000	mg/kg
Method	Value taken from the literature		

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Reference substance	alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))		
Species	rabbit		
LD50	3412	mg/kg	

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)

Reference substance	Citric acid, anhydrous
Species	rabbit
evaluation	non-irritant

Serious eye damage/irritation

evaluation	irritant
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The classification criteria are met.

Serious eye damage/irritation (Components)

Reference substance	Citric acid, anhydrous
Species	rabbit
evaluation	irritant

Sensitization

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

Mutagenicity

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

Reproductive toxicity

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

Carcinogenicity

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

Specific Target Organ Toxicity (STOT)**Single exposure**

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

Repeated exposure

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

Aspiration hazard

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

11.2 Information on other hazards**Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

SECTION 12: Ecological information**12.1. Toxicity****Fish toxicity****Citric acid, anhydrous**

Reference substance	Citric acid, anhydrous
Species	golden orfe (Leuciscus idus)
LC50	440 to 760 mg/l
Duration of exposure	96 h

Isotridecanol, ethoxylated (5-20 EO)

Reference substance	Isotridecanol, ethoxylated (5-20 EO)
Species	zebra fish (Brachydanio rerio)
LC50	10 to 100 mg/l
Method	OECD 203

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Reference substance	alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))
LC50	0,515 mg/l

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Daphnia toxicity**alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))**

Species	Daphnia magna		
EC50	0,016		mg/l
Duration of exposure	48	h	

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous		
Species	Daphnia magna		
EC50	appr. 120		mg/l
Duration of exposure	72	h	

Isotridecanol, ethoxylated (5-20 EO)

Reference substance	Isotridecanol, ethoxylated (5-20 EO)		
Species	Daphnia magna		
EC50	> 1	to 10	mg/l
Method	OECD 202		

Algae toxicity**Citric acid, anhydrous**

Reference substance	Citric acid, anhydrous		
Species	Scenedesmus quadricauda		
IC50	640		mg/l
Duration of exposure	7	d	

Bacteria toxicity**Citric acid, anhydrous**

Reference substance	Citric acid, anhydrous		
Species	Pseudomonas putida		
EC50	> 10000		mg/l
Duration of exposure	16	h	

Isotridecanol, ethoxylated (5-20 EO)

Reference substance	Isotridecanol, ethoxylated (5-20 EO)		
Species	activated sludge		
EC50	140		mg/l
Source	Literature value		

12.2. Persistence and degradability

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents.

Biodegradability**Citric acid, anhydrous**

Reference substance	Citric acid, anhydrous		
Value	97		%
Duration of test evaluation	28	d	
Method	readily degradable		
	OECD 301 B		
	Citric acid, anhydrous		
Value	100		%
Duration of test evaluation	19	d	
Method	readily degradable		
	OECD 301 E		

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

evaluation Readily biodegradable (according to OECD criteria)

Chemical oxygen demand (COD)**Citric acid, anhydrous**

Reference substance	Citric acid, anhydrous		
Value	728		mg/g

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Biochemical oxygen demand (BOD5)**Citric acid, anhydrous**

Reference substance	Citric acid, anhydrous	
Value	526	mg/g

12.3. Bioaccumulative potential

For this subsection there is no ecotoxicological data available on the product as such.

Octanol/water partition coefficient (log Pow)

Remarks	Not relevant
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12.4. Mobility in soil

For this subsection there is no ecotoxicological data available on the product as such.

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

The product contains no PBT substances. The product contains no vPvB substances.

12.6 Endocrine disrupting properties**Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

12.7. Other adverse effects

For this subsection there is no ecotoxicological data available on the product as such.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

SECTION 14: Transport information

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	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	The product does not constitute a hazardous substance in land transport.	The product does not constitute a hazardous substance in sea transport.
14.2. UN proper shipping name	-	-
14.3. Transport hazard class(es)	-	-
14.4. Packing group	-	-
Label		
14.5. Environmental hazards	-	

Information for all modes of transport

14.6. Special precautions for user

Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Other information

14.7 Maritime transport in bulk according to IMO instruments

Not relevant

SECTION 15: Regulatory information ***

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

Ingredients (Regulation (EC) No 648/2004)

less than 5 %:

non-ionic surfactants, cationic surfactants

Further ingredients

(R)-p-mentha-1,8-diene, Orange, sweet, ext.

VOC

VOC (EU) 5,5 %

Other information ***

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Eye Irrit. 2 H319 Calculation method

Aquatic Chronic 3 H412 Calculation method

Hazard statements listed in Chapter 2/3

H225 Highly flammable liquid and vapour.

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H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, Category 2
Flam. Liq. 3	Flammable liquid, Category 3
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT SE 3	Specific target organ toxicity - single exposure, Category 3

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 GGVSee: Gefahrgutverordnung See
 IMDG: International Maritime Code for Dangerous Goods
 CAS: Chemical Abstracts Service
 EAK: Europäischer Abfallkatalog
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 GefStoffV: Gefahrstoffverordnung
 TA Luft: Technische Anleitung zur Reinhaltung der Luft
 INCI: International Nomenclature of Cosmetic Ingredients
 n.a.g.: nicht anders genannt
 MAK: Maximale Arbeitsplatz-Konzentration
 AGW: Arbeitsplatzgrenzwert
 BGW: Biologischer Grenzwert
 TRGS: Technische Regeln für Gefahrstoffe
 OEL: Occupational exposure limit
 SUVA: Schweizerische Unfallversicherungsanstalt
 WEL: Workplace exposure limit
 MAC: Maximale aanvaarde concentratie (Netherlands)
 MEL: Maximum exposure limits
 NOEL: No observable effect level
 NOEC: No observable effect concentration
 LD: Lethal dose
 LC: Lethal concentration
 LLC: Lowest lethal concentration
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: Very persistent and very bioaccumulative
 SVHC: Substances of very high concern
 DNEL: Derived no effect level
 DMEL: Derived minimal effect level

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PNEC: Predicted no effect concentration

PEC: Predicted environmental concentration

GHS: Globally Harmonized System of classification and Labelling of Chemicals

REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals

UN: United Nations

EG: Europäische Gemeinschaft

EWG: Europäische Wirtschaftsgemeinschaft

EU: European Union

HSNO: Hazardous Substances and New Organisms Act (New Zealand)

ATE: Acute Toxicity Estimate

STOT: Specific Target Organ Toxicity

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***

This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.