

* Tropical

Date revised: 24.05.2023

8560015903

Version: 8 / GB

Master No. MA-211

Print date: 08.05.2025

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

1.1. Product identifier

Trade name

Tropical

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)

Acute Tox. 4 H302

Eye Dam. 1 H318

Skin Sens. 1 H317

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

Danger

Hazard statements ***

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Precautionary statements ***

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P280.2 Wear protective gloves/ eye/ face protection.

P301+P312 IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.

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

P310 Immediately call a POISON CENTER or doctor.

P330 Rinse mouth.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

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contains *** Isotridecanol, ethoxylated; linalool; Citronellol; geraniol; Cis-p-menthan-7-ol

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 *******Isotridecanol, ethoxylated**

CAS No.	69011-36-5			
EINECS no.	931-138-8			
Registration no.	IRRELEVANT (POLYMER)			
Concentration	>= 50			%
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

2-(2-butoxyethoxy)ethanol

CAS No.	112-34-5			
EINECS no.	203-961-6			
Registration no.	01-2119475104-44-XXXX			
Concentration	>= 10	< 25		%
Eye Irrit. 2	H319			

linalool

CAS No.	78-70-6			
EINECS no.	201-134-4			
Registration no.	01-2119474016-42-XXXX			
Concentration	>= 1	< 10		%
Skin Irrit. 2	H315			
Eye Irrit. 2	H319			
Skin Sens. 1B	H317			

Cis-p-menthan-7-ol

CAS No.	13828-37-0			
EINECS no.	237-539-8			
Registration no.	01-2119983532-32-XXXX			
Concentration	>= 0,1	< 1		%
Skin Irrit. 2	H315			
Skin Sens. 1B	H317			

geraniol

CAS No.	106-24-1			
EINECS no.	203-377-1			
Registration no.	01-2119552430-49-XXXX			
Concentration	>= 0,1	< 1		%
Skin Irrit. 2	H315			
Skin Sens. 1	H317			
Eye Dam. 1	H318			

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Citronellol

CAS No.	106-22-9
EINECS no.	203-375-0
Registration no.	01-2119453995-23-XXXX
Concentration	\geq 0,1 < 1 %
Skin Irrit. 2	H315
Skin Sens. 1	H317
Eye Irrit. 2	H319

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

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixtureIf a fire breaks out nearby, pressure build-up and danger of bursting are possible. Carbon monoxide (CO); Carbon dioxide (CO₂)**5.3. Advice for firefighters**

Cool endangered containers with water spray jet.

SECTION 6: Accidental release measures**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

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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****2-(2-butoxyethoxy)ethanol**

List	EH40			
Type	WEL			
Value	67.5	mg/m ³	10	ppm(V)
Short term exposure limit	101.2	mg/m ³	15	ppm(V)

2-(2-butoxyethoxy)ethanol

List	IOELV			
Type	IOELV			
Value	67,5	mg/m ³	10	ppm(V)
Short term exposure limit	101,2	mg/m ³	15	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

Body protection

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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	yellowish
Odour	fruit-like
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	7 to 8
Viscosity	
Value	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	1,02
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

10.1. Reactivity

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

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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 hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity**

ATE

882

mg/kg

Method

calculated value (Regulation (EC) No. 1272/2008)

The classification criteria are met.

Acute oral toxicity (Components)**2-(2-butoxyethoxy)ethanol****Isotridecanol, ethoxylated**

ATE

500

mg/kg

Source

Estimated value

Acute dermal toxicity

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

Acute dermal toxicity (Components)**2-(2-butoxyethoxy)ethanol****Acute inhalational toxicity**

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

Skin corrosion/irritation

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

Serious eye damage/irritation

evaluation

corrosive

The classification criteria are met.

Sensitization

evaluation

May cause sensitization by skin contact.

The classification criteria are 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.

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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****2-(2-butoxyethoxy)ethanol**

Reference substance	2-(2-butoxyethoxy)ethanol	
Species	sun perch	
LC50	1300	mg/l
Duration of exposure	96 h	

Daphnia toxicity**2-(2-butoxyethoxy)ethanol**

Reference substance	2-(2-butoxyethoxy)ethanol	
Species	Daphnia magna	
EC50	> 100	mg/l
Duration of exposure	48 h	
	2-(2-butoxyethoxy)ethanol	
Species	Daphnia magna	
NOEC	112	mg/l
Duration of exposure	14 d	

Algae toxicity**2-(2-butoxyethoxy)ethanol**

Reference substance	2-(2-butoxyethoxy)ethanol	
Species	Desmodesmus subspicatus	
ErC50	> 100	mg/l
Duration of exposure	72 h	
Method	OECD 201	

Bacteria toxicity**2-(2-butoxyethoxy)ethanol**

Reference substance	2-(2-butoxyethoxy)ethanol	
Species	activated sludge	
EC10	> 1995	mg/l
Duration of exposure	30 min	
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**2-(2-butoxyethoxy)ethanol**

Reference substance	2-(2-butoxyethoxy)ethanol	
Value	89 to 93	%
Duration of test evaluation	28 d	
Method	readily degradable OECD 301 C	

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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

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

	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.

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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)****30 % and more:**

non-ionic surfactants

Further ingredients ***

perfumes, linalool, benzyl alcohol, citral, Alpha Methyl Ionone, Benzyl Salicylate, Citronellol, coumarin, Eugenol, geraniol, Hexyl Cinnamal

VOC ***

VOC (EU) 1,38 %

Other information ***

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

Other information

The HSNO Approval Number for this Group Standard is HSR002530.

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]:**

Acute Tox. 4	H302	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method

Hazard statements listed in Chapter 2/3

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1
Skin Sens. 1B	Skin sensitization, Category 1B

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

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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

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.