

* 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 by / telephone Department product safety / +49 441 9317 108

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	= 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 contactIn 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 mixture

If 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
Short term exposure limit	101.2 mg/m ³

2-(2-butoxyethoxy)ethanol

List	IOELV
Type	IOELV
Value	67,5 mg/m ³
Short term exposure limit	101,2 mg/m ³

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
Method	DIN 53211 4 mm
	s
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	
Species	2-(2-butoxyethoxy)ethanol		
NOEC	Daphnia magna		
Duration of exposure	112		mg/l
		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	28	d	
evaluation	readily degradable		
Method	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

AbbreviationsADR: 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, Authorisation 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.