

* Benzafix A

Date revised: 12.11.2024

8430010904

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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

Benzafix A

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

Use of the substance/mixture

spotting agent

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)

Skin Irrit. 2 H315

Eye Dam. 1 H318

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

Danger

Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

P273 Avoid release to the environment.

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

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P310 lenses, if present and easy to do. Continue rinsing.
Immediately call a POISON CENTER or doctor.

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

contains amides, coco, N,N-bis(hydroxyethyl); Isotridecanol, ethoxylated; docusate sodium

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 *******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

2-(2-butoxyethoxy)ethyl acetate

CAS No.	124-17-4
EINECS no.	204-685-9
Registration no.	01-2119475110-51-XXXX
Concentration	>= 10 < 25 %
Eye Irrit. 2	H319

isotridecanol,ethoxylated (>=2.5 EO)

CAS No.	69011-36-5
EINECS no.	931-138-8
Registration no.	01-2119976362-32-XXXX
Concentration	>= 10 < 25 %
Eye Irrit. 2	H319
Aquatic Chronic 3	H412

docusate sodium

CAS No.	577-11-7
EINECS no.	209-406-4
Registration no.	01-2119491296-29-XXXX
Concentration	>= 3 < 10 %
Skin Irrit. 2	H315
Eye Dam. 1	H318

amides, coco, N,N-bis(hydroxyethyl)

CAS No.	68603-42-9
EINECS no.	271-657-0
Registration no.	01-2119490100-53-XXXX (EC931-329-6)
Concentration	>= 3 < 10 %
Skin Irrit. 2	H315
Eye Dam. 1	H318
Aquatic Chronic 2	H411

Isotridecanol, ethoxylated

CAS No.	69011-36-5
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EINECS no.	931-138-8				
Registration no.	IRRELEVANT (POLYMER)				
Concentration	>= 3	< 10		%	
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	500		mg/kg	

Further ingredients**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

CAS No.	34590-94-8	EINECS no.	252-104-2
Registration no.	01-2119450011-60-XXXX		
Concentration	>= 10	< 25	% [3]

Note

[3] Substance with occupational exposure limits
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 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

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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****(2-Methoxymethylethoxy)-propanol (mixed isomers)**

List	EH40
Type	WEL
Value	308 mg/m ³
Maximum limit value; Skin resorption / sensitisation: Sk; Pregnancy group; Status; Remarks: Sk	

(2-Methoxymethylethoxy)-propanol (mixed isomers)

List	IOELV
Type	IOELV
Value	308 mg/m ³
Maximum limit value; Skin resorption / sensitisation: Sk; Pregnancy group; Status; Remarks: Skin	

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,

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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

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

ester-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 7,0 to 8,0

ViscosityValue appr. 14 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

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Value	appr. 0,99	kg/l
Vapour density		
Remarks	not determined	
Particle characteristics		
Remarks	irrelevant (liquid)	

9.2. Other information

Odour threshold	No data available
Solubility in water	
Remarks	miscible
Efflux time	
Value	appr. 14
Method	DIN 53211 4 mm

SECTION 10: Stability and reactivity

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 hazard classes as defined in Regulation (EC) No 1272/2008

Acute oral toxicity

ATE 8.961 mg/kg
Method calculated value (Regulation (EC) No. 1272/2008)
Based on available data, the classification criteria are not met.

Acute oral toxicity (Components)

(2-Methoxymethylmethoxy)-propanol (mixed isomers)

Species rat mg/kg
LD50 5135

Isotridecanol, ethoxylated

ATE 500 mg/kg
Source Estimated value

2-(2-butoxyethoxy)ethanol

Reference substance 2-(2-butoxyethoxy)ethanol
Species mouse mg/kg
LD50 2410

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Acute dermal toxicity

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

Acute dermal toxicity (Components)**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	rabbit		
LD50	9510	mg/kg	

2-(2-butoxyethoxy)ethanol

Reference substance	2-(2-butoxyethoxy)ethanol		
Species	rabbit		
LD50	2764	mg/kg	

Acute inhalational toxicity

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

Acute inhalative toxicity (Components)**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	rat		
LC50	60	mg/l	
Duration of exposure	4	h	

Skin corrosion/irritation

evaluation irritant

The classification criteria are met.

Serious eye damage/irritation

evaluation corrosive

The classification criteria are met.

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****(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	guppy (Poecilia reticulata)		
LC50	> 1000	mg/l	

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Duration of exposure	96	h
Method	OECD 203	
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-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	Daphnia magna	
LC50	1919	mg/l
Duration of exposure	48	h
Species	Daphnia magna	
NOEC	> 0,5	mg/l
Duration of exposure	22	d

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
	14	d

Algae toxicity**(2-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	Skeletonema costatum	
EC50	6999	mg/l
Duration of exposure	72	h

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-Methoxymethylethoxy)-propanol (mixed isomers)**

Species	Pseudomonas putida	
EC10	4168	mg/l
Duration of exposure	18	h

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-Methoxymethylethoxy)-propanol (mixed isomers)**

Value	75	%
Duration of test	28	d
evaluation	Readily biodegradable (according to OECD criteria)	

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Method OECD 301 F

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		

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)

15 % or over but less than 30 %:

non-ionic surfactants

5 % or over but less than 15 %:

anionic surfactants

VOC

VOC (EU) 10 %

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]:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
Aquatic Chronic 3	H412	Calculation method

Hazard statements listed in Chapter 2/3

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H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	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 Chronic 2	Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Irrit. 2	Skin irritation, Category 2

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

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

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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.