

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

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

### **1.1. Product identifier**

**Trade name**

Idekolin

### **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 &amp; 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)**

Flam. Liq. 3 H226

Skin Irrit. 2 H315

Eye Dam. 1 H318

STOT SE 3 H336

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**

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

\* Idekolin

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P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P280.2	Wear protective gloves/ eye/ face protection.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
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.

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

contains n-butyl acetate; amides, coco, N,N-bis(hydroxyethyl); Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.

**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****n-butyl acetate**

CAS No.	123-86-4
EINECS no.	204-658-1
Registration no.	01-2119485493-29-XXXX
Concentration	>= 25 < 50 %
Flam. Liq. 3	H226
STOT SE 3	H336

**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	>= 10 < 25 %
Skin Irrit. 2	H315
Eye Dam. 1	H318
Aquatic Chronic 2	H411

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

CAS No.	112-34-5
EINECS no.	203-961-6
Registration no.	01-2119475104-44-XXXX
Concentration	>= 1 < 10 %
Eye Irrit. 2	H319

**Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs.**

CAS No.	85536-14-7
EINECS no.	287-494-3
Registration no.	01-2119490234-40-XXXX
Concentration	>= 3 < 5 %
Acute Tox. 4	H302
Skin Corr. 1C	H314
Eye Dam. 1	H318
Aquatic Chronic 3	H412

cATpE oral 500 mg/kg

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

**diethanolamine**

CAS No.	111-42-2
EINECS no.	203-868-0
Registration no.	01-2119488930-28-XXXX
Concentration	>= 0,1 < 1 %
Acute Tox. 4	H302
STOT RE 2	H373
Skin Irrit. 2	H315
Eye Dam. 1	H318
Repr. 2	H361fd

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**

### **6.1. Personal precautions, protective equipment and emergency procedures**

High risk of slipping due to leakage/spillage of product. Use personal protective clothing. Keep away sources of ignition.

### **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".

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

#### 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. Provide good ventilation of working area (local exhaust ventilation if necessary).

Keep away from sources of ignition - No smoking. Take action to prevent static discharges. Vapours can form an explosive mixture with air.

### 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.

Protect from heat and direct sunlight.

### 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 <sup>3</sup>	10	ppm(V)
Short term exposure limit	101.2	mg/m <sup>3</sup>	15	ppm(V)

#### 2-(2-butoxyethoxy)ethanol

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

#### n-butyl acetate

List	EH40			
Type	WEL			
Value	724	mg/m <sup>3</sup>	150	ppm(V)
Short term exposure limit	966	mg/m <sup>3</sup>	200	ppm(V)

### 8.2. Exposure controls

#### General protective and hygiene measures

Observe the usual precautions for handling chemicals. 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	>	0,35	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

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

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**

<b>Physical state</b>	liquid			
<b>Colour</b>	yellowish			
<b>Odour</b>	ester-like			
<b>Melting point</b>				
Remarks	not determined			
<b>Boiling point</b>				
Remarks	not determined			
<b>Flammability</b>				
evaluation	not determined			
<b>Explosion limits</b>				
Remarks	not determined			
<b>Flash point</b>				
Value	24,5			°C
<b>Ignition temperature</b>				
Remarks	not determined			
<b>Thermal decomposition</b>				
Remarks	Not relevant			
<b>pH value</b>				
Value	7,5	to	8,5	
Concentration/H <sub>2</sub> O	1	%		
<b>Viscosity</b>				
Value	appr. 12			s
Method	DIN 53211 4 mm			
<b>Solubility in other solvents</b>				
	not determined			
<b>Octanol/water partition coefficient (log Pow)</b>				
Remarks	Not relevant			
<b>Vapour pressure</b>				
Remarks	not determined			
<b>Density</b>				
Value	appr. 0,95			kg/l
<b>Vapour density</b>				
Remarks	not determined			
<b>Particle characteristics</b>				
Remarks	irrelevant (liquid)			
<b>9.2. Other information</b>				
<b>Odour threshold</b>				
Remarks	No data available			

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

**Solubility in water**

Remarks miscible

**Efflux time**Value appr. 12 s  
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 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)****2-(2-butoxyethoxy)ethanol****diethanolamine**Reference substance diethanolamine  
Species rat  
LD50 1600 mg/kg**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****2-(2-butoxyethoxy)ethanol****diethanolamine**Reference substance diethanolamine  
Species rabbit  
LD50 > 2000 mg/kg**Acute inhalational toxicity**

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

**Acute inhalative toxicity (Components)****diethanolamine**

Reference substance diethanolamine

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

Species	rat		
LC0	3,35		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.

**Sensitization (Components)**

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**

The classification criteria are met.  
evaluation May cause drowsiness or dizziness.

**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	

**diethanolamine**

Reference substance	diethanolamine		
Species	Fathead minnow (Pimephales promelas)		
LC50	1460		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

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

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

**diethanolamine**

Reference substance	diethanolamine		
Species	Daphnia magna		
EC50	55		mg/l
Duration of exposure	48	h	

**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		

**diethanolamine**

Reference substance	diethanolamine		
Species	Pseudokirchneriella subcapitata		
ErC50	2,2		mg/l
Duration of exposure	96	h	

**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		

**diethanolamine**

Reference substance	diethanolamine		
Species	activated sludge		
EC50	> 1000		mg/l
Duration of exposure	3	h	

**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		

**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**



\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

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**

\* Idekolin



Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

	Land transport ADR/RID	Marine transport IMDG/GGVSee
14.1. UN number	1993	1993
14.2. UN proper shipping name	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate)	FLAMMABLE LIQUID, N.O.S. (n-butyl acetate)
14.3. Transport hazard class(es)	3	3
14.4. Packing group	III	III
Label		
Special provision	640E	
14.5. Environmental hazards	-	
Limited Quantity	5 l	
Transport category	3	
Tunnel restriction code	D/E	
Hazard id. no.	30	
EmS		F-E, S-E

### 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

#### Major-accident categories acc. 2012/18/EU

Category P5c FLAMMABLE LIQUID

#### Ingredients (Regulation (EC) No 648/2004)

##### 5 % or over but less than 15 %:

non-ionic surfactants

##### less than 5 %:

anionic surfactants

\* Idekolin

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

**National regulations Switzerland**

SFOPH T no. 158909

**VOC**

VOC (EU) 45 %

**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]:**

Flam. Liq. 3	H226	On basis of test data
Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method
STOT SE 3	H336	Calculation method
Aquatic Chronic 3	H412	Calculation method

**Hazard statements listed in Chapter 2/3**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
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
Flam. Liq. 3	Flammable liquid, Category 3
Repr. 2	Reproductive toxicity, Category 2
Skin Corr. 1C	Skin corrosion, Category 1C
Skin Irrit. 2	Skin irritation, Category 2
STOT RE 2	Specific target organ toxicity - repeated exposure, Category 2
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

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**\* Idekolin**

Date revised: 06.04.2023

# 8450001203

Version: 9 / GB

Master No. MA-231

Print date: 07.05.2024

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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.