

\* Tolo Aktiv

Date revised: 14.11.2023

# 8750309906

Version: 9 / GB

Master No. MA-212

Print date: 17.04.2024

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

### **1.1. Product identifier**

#### **Trade name**

Tolo Aktiv

### **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 &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)**

Aquatic Chronic 3 H412

Skin Corr. 1 H314

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 \*\*\***

H412 Harmful to aquatic life with long lasting effects.

H314 Causes severe skin burns and eye damage.

#### **Precautionary statements \*\*\***

P273 Avoid release to the environment.

P260.2 Do not breathe vapours/spray.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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

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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 \*\*\*

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

CAS No.	112-34-5				
EINECS no.	203-961-6				
Registration no.	01-2119475104-44-XXXX				
Concentration	>=	1	<	5,3	%
Eye Irrit. 2	H319				

##### 2-[2-(2-butoxyethoxy)ethoxy]ethanol

CAS No.	143-22-6				
EINECS no.	205-592-6				
Concentration	>=	1	<	3	%
Eye Dam. 1	H318				

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

Eye Dam. 1	H318	>= 30 %
Eye Irrit. 2	H319	>= 20 < 30 %

##### Alcohols, C12-14, ethoxylated, sulfates, sodium salts

CAS No.	68891-38-3				
EINECS no.	500-234-8				
Registration no.	01-2119488639-16-XXXX				
Concentration	>=	1	<	1,4	%
Eye Dam. 1	H318				
Skin Irrit. 2	H315				
Aquatic Chronic 3	H412				

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

Eye Irrit. 2	H319	>= 5 < 10 %
Eye Dam. 1	H318	>= 10 %

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

CAS No.	5989-27-5				
EINECS no.	227-813-5				
Registration no.	01-2119529223-47-XXXX				
Concentration	>=	0,25	<	1	%
Aquatic Chronic 3	H412				
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
Aquatic Chronic 1	M = 1

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Additional remarks:

CLP

Regulation (EC) No 1272/2008, Annex VI, Note C

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. Summon a doctor immediately.

#### **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**

Do not induce vomiting. Call in a physician immediately and show him the Safety Data Sheet.

### **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, Extinguishing measures to suit surroundings

#### **Non suitable extinguishing media**

Full water jet

### **5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible. If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

### **5.3. Advice for firefighters**

Use self-contained breathing apparatus.  
Cool endangered containers with water spray jet.

## **SECTION 6: Accidental release measures**

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

Keep people away and stay on the upwind side. Use breathing apparatus if exposed to vapours/dust/aerosol. 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**

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### 7.1. Precautions for safe handling

Provide good ventilation of working area (local exhaust ventilation if necessary).  
Containers in danger should be cooled with water.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep only in original packaging. Provide alkali-resistant floor. Store product in closed containers.  
Do not store together with: Acids, Aluminium  
Keep container tightly closed.

### 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)

### 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

Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, Filter B

#### Hand protection

Chemical resistant gloves

Appropriate Material	nitrile		
Material thickness	>=	0,7	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

Alkali-resistant protective clothing

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

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<b>Physical state</b>	liquid		
<b>Colour</b>	colourless to yellowish		
<b>Odour</b>	of lemon		
<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	> 100		°C
<b>Ignition temperature</b>			
Remarks	not determined		
<b>Thermal decomposition</b>			
Remarks	Not relevant		
<b>pH value</b>			
Value	appr. 13,1		
<b>Viscosity</b>			
Value	appr. 11		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. 1,03		kg/l
Temperature	20	°C	
<b>Vapour density</b>			
Remarks	not determined		
<b>Particle characteristics</b>			
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

Corrodes aluminium.

### 10.2. Chemical stability

The product is stable.

### 10.3. Possibility of hazardous reactions

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Strong exothermic reaction with acids.

**10.4. Conditions to avoid**

Protect from heat and direct sunlight.

**Thermal decomposition**

Remarks Not relevant

**10.5. Incompatible materials**

Strong exothermic reaction with acids. Reactions with metals, with evolution of hydrogen.

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.

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

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

**Acute oral toxicity (Components)****Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Reference substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			
Species	Rats (male/female)			
LD50	2870	to	4100	mg/kg

**Acute dermal toxicity**

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

**Acute dermal toxicity (Components)****Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Reference substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts			
Species	rat			
LD50	>	2000		mg/kg

**Acute inhalational toxicity**

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

**Skin corrosion/irritation**

evaluation	corrosive
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.

**Reproductive toxicity****Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Reference substance	bronopol (INN)		
Species	rat (male)		
Dose	300		mg/kg
Duration of exposure	11		Weeks

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**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-(2-butoxyethoxy)ethanol**

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

**2-[2-(2-butoxyethoxy)ethoxy]ethanol**

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Species	golden orfe (Leuciscus idus)		
LC50	> 100		mg/l
Duration of exposure	96	h	
Source	Literature value		

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Reference substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
Species	zebra fish (Brachydanio rerio)		
LC50	7,1		mg/l
Duration of exposure	96	h	
Method	OECD 203		

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

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

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

**2-[2-(2-butoxyethoxy)ethoxy]ethanol**

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Species	Daphnia magna		
EC50	> 500		mg/l
Duration of exposure	48	h	
Method	OECD 202		

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Reference substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
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Species	Daphnia magna		
EC50	7,2		mg/l
Duration of exposure	48	h	
Method	OECD 202		

**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		

**2-[2-(2-butoxyethoxy)ethoxy]ethanol**

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Species	Pseudokirchneriella subcapitata		
EC50	> 100		mg/l
Duration of exposure	72	h	
Method	OECD 201		

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Reference substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
Species	Scenedesmus subspicatus		
NOEC	0,95		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		

**2-[2-(2-butoxyethoxy)ethoxy]ethanol**

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Species	activated sludge		
EC10	> 1995		mg/l
Duration of exposure	30	min	
Method	OECD 209		

**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.Do not discharge product unmonitored into the environment.

**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		

**2-[2-(2-butoxyethoxy)ethoxy]ethanol**

Reference substance	2-[2-(2-butoxyethoxy)ethoxy]ethanol		
Value	> 60		%
Duration of test evaluation	17	d	
	Readily biodegradable (according to OECD criteria)		

**Alcohols, C12-14, ethoxylated, sulfates, sodium salts**

Reference substance	Alcohols, C12-14, ethoxylated, sulfates, sodium salts		
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Value	>	95	%
evaluation		Readily biodegradable (according to OECD criteria)	
Method		OECD 301 E	

**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.

**Behaviour in sewers [waste treatment plants]**

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

**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 %:

polycarboxylates, non-ionic surfactants, anionic surfactants

##### Further ingredients \*\*\*

reaction mass of: 5-chloro-2- methyl-4-isothiazolin-3-one [EC no. 247-500-7]and 2-methyl-2H -isothiazol-3- one [EC no. 220-239-6] (3:1), bronopol (INN), linalool, Orange, sweet, ext., (R)-p-mentha-1,8-diene

#### VOC \*\*\*

VOC (EU) 0,5 %

#### 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]:

Aquatic Chronic 3	H412	Calculation method
Skin Corr. 1	H314	Calculation method

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

H226	Flammable liquid and vapour.
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.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

**CLP categories listed in Chapter 2/3**

Aquatic Acute 1	Hazardous to the aquatic environment, acute, 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. 3	Flammable liquid, Category 3
Skin Corr. 1	Skin corrosion, Category 1
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1

**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, Autohorisation and Restriction of Chemicals  
 UN: United Nations

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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.