

# Safety Data Sheet

according to UK REACH Regulation

## beko Clean & Polish

Revision date: 01.09.2023

Product code: 299 47 250 / 750

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

#### 1.1. Product identifier

beko Clean & Polish

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

##### Use of the substance/mixture

Abrasive cleaning products

#### 1.3. Details of the supplier of the safety data sheet

Company name:	beko GmbH	
Street:	Rappenfeldstr. 5	
Place:	DE-86653 Monheim	
Telephone:	+49 (0) 9091 90898-0	Telefax: +49 (0) 9091 90898-29
e-mail (Contact person):	info@beko-group.com	
Internet:	www.beko-group.com	
Responsible Department:	Abteilung Produktsicherheit	

**1.4. Emergency telephone number:** Poison Control Center Mainz - 24 hour emergency service – phone: +49 (0) 6131/19240

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### GB CLP Regulation

Eye Dam. 1; H318  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

#### 2.2. Label elements

##### GB CLP Regulation

##### Hazard components for labelling

Fettalkoholpolyglykolether  
Sulfonsäure, C14-17-sek. Alkan, Natriumsalz

**Signal word:** Danger

##### Pictograms:



##### Hazard statements

H318 Causes serious eye damage.  
H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.  
P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
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/doctor.  
P501 Dispose of waste according to applicable legislation.

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

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### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Hazardous components

CAS No	Chemical name	Quantity		
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
77-92-9	Citric acid			10 - < 15 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
127036-24-2	Fettalkoholpolyglykoether			5 - < 10 %
	Eye Dam. 1; H318			
97489-15-1	Sulfonsäure, C14-17-sek. Alkan, Natriumsalz			3 - < 5 %
	307-055-2		01-2119489924-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412			
68855-56-1	Lauryl/Myristyl Alcohol			0.1 - < 1 %
	272-490-6		01-2119485976-15	
	Aquatic Acute 1, Aquatic Chronic 1; H400 H410			

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
77-92-9	201-069-1	Citric acid	10 - < 15 %
		dermal: LD50 = > 2000 mg/kg; oral: LD50 = 5400 mg/kg	
127036-24-2		Fettalkoholpolyglykoether	5 - < 10 %
		oral: LD50 = 2001 mg/kg	
97489-15-1	307-055-2	Sulfonsäure, C14-17-sek. Alkan, Natriumsalz	3 - < 5 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 500-2000 mg/kg	
68855-56-1	272-490-6	Lauryl/Myristyl Alcohol	0.1 - < 1 %
		dermal: LD50 = 2001 mg/kg; oral: LD50 = >5000 mg/kg	

##### Labelling for contents according to Regulation (EC) No 648/2004

5 % - < 15 % non-ionic surfactants, < 5 % anionic surfactants.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

##### After ingestion

Rinse mouth immediately and drink plenty of water.

#### 4.2. Most important symptoms and effects, both acute and delayed

No information available.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

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### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Co-ordinate fire-fighting measures to the fire surroundings.

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

Non-flammable.

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

In case of fire: Wear self-contained breathing apparatus.

#### **Additional information**

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

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

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

#### **General advice**

Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

### **6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

### **6.3. Methods and material for containment and cleaning up**

#### **Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray. Provide adequate ventilation as well as local exhaustion at critical locations.

#### **Advice on protection against fire and explosion**

No special fire protection measures are necessary.

#### **Advice on general occupational hygiene**

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme.

Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

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

#### **Requirements for storage rooms and vessels**

Keep container tightly closed. Keep locked up. Store in a place accessible by authorized persons only. Provide adequate ventilation as well as local exhaustion at critical locations.

#### **Hints on joint storage**

No special measures are necessary.

### **7.3. Specific end use(s)**

Abrasive cleaning products

## **SECTION 8: Exposure controls/personal protection**

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### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
1344-28-1	Aluminium oxides, inhalable dust	-	10		TWA (8 h)	WEL

#### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
97489-15-1	Sulfonsäure, C14-17-sek. Alkan, Natriumsalz			
Worker DNEL, acute		dermal	local	2,8 mg/cm <sup>2</sup>
Worker DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	35 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	local	2,8 mg/cm <sup>2</sup>
Consumer DNEL, acute		dermal	local	2,8 mg/cm <sup>2</sup>
Consumer DNEL, long-term		dermal	systemic	3,57 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	12,4 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	7,1 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	2,8 mg/cm <sup>2</sup>

#### PNEC values

CAS No	Substance	Value
97489-15-1	Sulfonsäure, C14-17-sek. Alkan, Natriumsalz	
Freshwater		0,04 mg/l
Freshwater (intermittent releases)		0,06 mg/l
Marine water		0,004 mg/l
Freshwater sediment		9,4 mg/kg
Marine sediment		0,94 mg/kg
Micro-organisms in sewage treatment plants (STP)		600 mg/l
Soil		9,4 mg/kg

### 8.2. Exposure controls



#### Appropriate engineering controls

If handled uncovered, arrangements with local exhaust ventilation have to be used. Do not breathe gas/fumes/vapour/spray.

#### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Suitable eye protection: goggles.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four

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control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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.

Butyl caoutchouc (butyl rubber) (0,7 mm) Breakthrough time: >480 min.

### Skin protection

Wear suitable protective clothing.

### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## SECTION 9: Physical and chemical properties

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

Physical state:	Liquid
Colour:	white
Odour:	characteristic
Odour threshold:	This information is not available.
Melting point/freezing point:	not determined
Boiling point or initial boiling point and boiling range:	100 °C
Flammability:	not applicable
Lower explosion limits:	No data available
Upper explosion limits:	No data available
Flash point:	>180 °C
Auto-ignition temperature:	No data available
Decomposition temperature:	not applicable
pH-Value (at 20 °C):	2,5 (100%)
Viscosity / kinematic: (at 20 °C)	660 mm <sup>2</sup> /s
Water solubility:	easily soluble
Solubility in other solvents	not determined
Partition coefficient n-octanol/water:	not determined
Vapour pressure:	23 hPa
Density (at 20 °C):	1,3 g/cm <sup>3</sup>
Relative vapour density:	not determined

### 9.2. Other information

#### Information with regard to physical hazard classes

Explosive properties

The product is not: Explosive

Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

Oxidizing properties

Not oxidising.

#### Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

Viscosity / dynamic:  
(at 20 °C)

1000 mPa·s

## SECTION 10: Stability and reactivity

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### 10.1. Reactivity

No hazardous reaction when handled and stored according to provisions.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

No known hazardous reactions.

### 10.4. Conditions to avoid

none

### 10.5. Incompatible materials

No information available.

### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

## SECTION 11: Toxicological information

### 11.1. Information on hazard classes as defined in GB CLP Regulation

#### ATEmix calculated

ATE (oral) 13888,9 mg/kg

#### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
77-92-9	Citric acid				
	oral	LD50 mg/kg 5400	Maus		
	dermal	LD50 mg/kg > 2000	Ratte		
127036-24-2	Fettalkoholpolyglykoether				
	oral	LD50 mg/kg 2001	Rat		
97489-15-1	Sulfonsäure, C14-17-sek. Alkan, Natriumsalz				
	oral	LD50 mg/kg 500-2000	Ratte		
	dermal	LD50 mg/kg >2000	Maus		
68855-56-1	Lauryl/Myristyl Alcohol				
	oral	LD50 mg/kg >5000	Rat		
	dermal	LD50 mg/kg 2001	Rat		

#### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

### 11.2. Information on other hazards

#### Endocrine disrupting properties

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

## SECTION 12: Ecological information

### 12.1. Toxicity

The product is not: Ecotoxic.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
77-92-9	Citric acid					
	Acute fish toxicity	LC50 440 mg/l	96 h	Leuciscus idus melanotus		
	Acute crustacea toxicity	EC50 1535 mg/l	48 h	Daphnia magna		
127036-24-2	Fettalkoholpolyglykoether					
	Acute fish toxicity	LC50 2 mg/l	96 h	Danio rerio (zebrafish)		
	Acute bacteria toxicity	(EC50 100 mg/l)		Activated sludge	oeed 203	
97489-15-1	Sulfonsäure, C14-17-sek. Alkan, Natriumsalz					
	Acute fish toxicity	LC50 5,5 mg/l	96 h	Leuciscus idus (golden orfe)	ECHA	
	Acute algae toxicity	ErC50 >61 mg/l	72 h	Desmoesmus subspicatus		
	Acute crustacea toxicity	EC50 9,81 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC 0,85 mg/l	28 d	Oncorhynchus mykiss		
	Crustacea toxicity	NOEC 0,36 mg/l	22 d	Daphnia magna		
68855-56-1	Lauryl/Myristyl Alcohol					
	Acute fish toxicity	LC50 1-10 mg/l	96 h	Pimephales promelas (fathead minnow)	DIN EN ISO 7346-2	
	Acute bacteria toxicity	(EC50 >100 mg/l)		Pseudomonas putida	OECD 209	

### 12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
127036-24-2	Fettalkoholpolyglykoether			
	OECD 301 E	91	28	
	Readily biodegradable (according to OECD criteria).			
97489-15-1	Sulfonsäure, C14-17-sek. Alkan, Natriumsalz			
	OECD 301 B	78%	28	
	biologisch leicht abbaubar			
	OECD 301 E	89%	28	
	biologisch leicht abbaubar			
	OECD 301 E	96,2	34	
	biologisch leicht abbaubar			
68855-56-1	Lauryl/Myristyl Alcohol			
	OECD 301 A-F	70%	28	
	Readily biodegradable (according to OECD criteria).			

### 12.3. Bioaccumulative potential

The product has not been tested.

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### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
77-92-9	Citric acid	-0,12

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

The product has not been tested.

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### List of Wastes Code - residues/unused products

200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

#### List of Wastes Code - contaminated packaging

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

**14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.

**14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

### 14.6. Special precautions for user

No information available.

### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

## SECTION 15: Regulatory information

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### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D):

2 - obviously hazardous to water

### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

## SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

#### Classification for mixtures and used evaluation method according to GB CLP Regulation

Classification	Classification procedure
Eye Dam. 1; H318	Calculation method
Aquatic Chronic 3; H412	Calculation method

#### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*