

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 (REACH)

Revision date: 30-Oct-2019

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

* 1.1. Product identifier

Trade name/designation:

MEIKOLON ÖkoClean KS

Additional information:

Restricted to professional users.

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

Use of the substance/mixture:

Washing and cleaning products

1.3. Details of the supplier of the safety data sheet

Supplier (manufacturer/importer/only representative/downstream user/distributor):

MEIKO Maschinenbau GmbH&Co.KG

Englerstrasse 3

77652 Offenburg

Germany

Telephone: +49(0)781/203-0

E-mail: meikolon@meiko.de

Website: www.meiko.de

1.4. Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg, 24h: +49(0)76119240

SECTION 2: Hazards identification

* 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

* 2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms:



GHS07

Exclamation mark

Signal word: Warning

hazard statements for health hazards

H302	Harmful if swallowed.
H319	Causes serious eye irritation.

Supplemental Hazard information (EU): -

Precautionary statements Prevention

P280	Wear eye protection/face protection.
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Precautionary statements Response

P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor/.../ if you feel unwell.
P337 + P313	If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

No data available

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Hazardous ingredients / Hazardous impurities / Stabilisers:

product identifiers	Substance name Classification according to Regulation (EC) No 1272/2008 [CLP]	Concentration
CAS No.: 9038-95-3	1-[2-[2-(3-methoxypropoxy)propoxy]ethoxy]butane Acute Tox. 4 ⚠ Warning H302	5 - 15 Wt %
	fatty alcohol alkoxylate 4 Acute Tox. 4, Aquatic Chronic 3, Eye Irrit. 2 ⚠ Warning H302-H319-H412	5 - 15 Wt %
CAS No.: 67-63-0 EC No.: 200-661-7 REACH No.: 01-2119457558-25	Propan-2-ol Eye Irrit. 2, Flam. Liq. 2, STOT SE 3 ⚠ Danger H225-H319-H336	5 - 10 Wt %
CAS No.: 5949-29-1 EC No.: 201-069-1 REACH No.: 01-2119457026-42	citric acid monohydrate Eye Irrit. 2 ⚠ Warning H319	1 - 5 Wt %
CAS No.: 28348-53-0 EC No.: 290-913-5 REACH No.: 01-2119489411-37	sodium p-cumenesulphonate Eye Irrit. 2 ⚠ Warning H319	1 - 5 Wt %

Full text of H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information:

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Remove victim out of the danger area. Remove contaminated, saturated clothing. If unconscious place in recovery position and seek medical advice. Do not leave affected person unattended.

Following inhalation:

Provide fresh air. In case of respiratory tract irritation, consult a physician.

In case of skin contact:

After contact with skin, wash immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. Take off immediately all contaminated clothing.

After eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

After ingestion:

Rinse mouth. Let water be drunk in little sips (dilution effect). Get medical advice/attention if you feel unwell.

Self-protection of the first aider:

Use personal protection equipment. No direct artificial respiration to be given by first aider.

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

Serious eye damage/eye irritation

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

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

Water

Extinguishing powder

Carbon dioxide (CO₂)

5.2. Special hazards arising from the substance or mixture

The product itself does not burn.

Hazardous combustion products:

Carbon monoxide

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information

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

6.1.1. For non-emergency personnel

Personal precautions:

Remove persons to safety.

Protective equipment:

Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2. For emergency responders

Personal protection equipment:

Personal protection equipment: see section 8

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

* 6.3. Methods and material for containment and cleaning up

For containment:

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

For cleaning up:

Water

6.4. Reference to other sections

Safe handling: see section 7 Personal protection equipment: see section 8 Disposal: see section 13

6.5. Additional information

Use appropriate container to avoid environmental contamination.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Protective measures

Advices on safe handling:

Wear personal protection equipment (refer to section 8).

Fire prevent measures:

No special measures are necessary.

Advices on general occupational hygiene

When using do not eat, drink or smoke. Avoid contact with eyes and skin.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions:

Keep container tightly closed in a cool, well-ventilated place.

Storage class: 12 - non-combustible liquids that cannot be assigned to any of the above storage classes

7.3. Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. Occupational exposure limit values

Limit value type (country of origin)	Substance name	① long-term occupational exposure limit value ② short-term occupational exposure limit value ③ Instantaneous value ④ Monitoring and observation processes ⑤ Remark
WEL (GB)	Propan-2-ol CAS No.: 67-63-0	① 400 ppm (999 mg/m ³) ② 500 ppm (1,250 mg/m ³)
WEL (GB)	Propanediol CAS No.: 57-55-6	① 10 mg/m ³ ⑤ (particulates)
WEL (GB)	Propanediol CAS No.: 57-55-6	① 150 ppm (474 mg/m ³) ⑤ (total vapour & particulates)

8.1.2. Biological limit values

No data available

8.1.3. DNEL-/PNEC-values

Substance name	DNEL value	① DNEL type ② Exposure route
sodium p-cumenesulphonate CAS No.: 28348-53-0	53.6 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
sodium p-cumenesulphonate CAS No.: 28348-53-0	7.6 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
sodium p-cumenesulphonate CAS No.: 28348-53-0	0.096 mg/ cm ²	① DNEL worker ② dermal, long-term, local
Propanediol CAS No.: 57-55-6	168 mg/m ³	① DNEL worker ② inhalative, long-term, systemic
Propanediol CAS No.: 57-55-6	10 mg/m ³	① DNEL worker ② inhalative, long-term, local

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Substance name	DNEL value	① DNEL type ② Exposure route
Propanediol CAS No.: 57-55-6	10 mg/m ³	① DNEL worker ② inhalative, short-term, local, (acute)
Propanediol CAS No.: 57-55-6	213 mg/kg bw/day	① DNEL worker ② dermal, long-term, systemic
Propanediol CAS No.: 57-55-6	85 mg/kg bw/day	① DNEL worker ② oral, long-term, systemic

Substance name	PNEC Value	① PNEC type
citric acid monohydrate CAS No.: 5949-29-1	0.44 mg/l	① PNEC aquatic, freshwater
citric acid monohydrate CAS No.: 5949-29-1	0.044 mg/l	① PNEC aquatic, marine water
citric acid monohydrate CAS No.: 5949-29-1	3.46 mg/kg	① PNEC sediment, freshwater
citric acid monohydrate CAS No.: 5949-29-1	34.6 mg/kg	① PNEC sediment, marine water
sodium p-cumenesulphonate CAS No.: 28348-53-0	0.23 mg/l	① PNEC aquatic, freshwater
sodium p-cumenesulphonate CAS No.: 28348-53-0	0.023 mg/l	① PNEC aquatic, marine water
sodium p-cumenesulphonate CAS No.: 28348-53-0	100 mg/l	① PNEC sewage treatment plant
sodium p-cumenesulphonate CAS No.: 28348-53-0	0.862 mg/kg	① PNEC sediment, freshwater
sodium p-cumenesulphonate CAS No.: 28348-53-0	0.0862 mg/ kg	① PNEC soil, marine water
Propanediol CAS No.: 57-55-6	260 mg/l	① PNEC aquatic, freshwater
Propanediol CAS No.: 57-55-6	26 mg/l	① PNEC aquatic, marine water
Propanediol CAS No.: 57-55-6	20,000 mg/l	① PNEC sewage treatment plant
Propanediol CAS No.: 57-55-6	572 mg/kg	① PNEC sediment, freshwater
Propanediol CAS No.: 57-55-6	57.2 mg/kg	① PNEC sediment, marine water

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No data available

8.2.2. Personal protection equipment



Eye/face protection:

Eye glasses with side protection DIN EN 166

8.2.3. Environmental exposure controls

No data available

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SECTION 9: Physical and chemical properties

* 9.1. Information on basic physical and chemical properties

Appearance

Physical state: Liquid

Colour: blue

Odour: Alcohol

Safety relevant basis data

parameter		at °C	Method	Remark
pH	2.1	20 °C		
Melting point	<i>not determined</i>			
Freezing point	<i>not determined</i>			
Initial boiling point and boiling range	> 90 °C			
Decomposition temperature	<i>not determined</i>			
Flash point	= 38 °C			Not sustaining combustion
Evaporation rate	<i>not determined</i>			
Auto-ignition temperature	<i>not determined</i>			
Upper/lower flammability or explosive limits	<i>not determined</i>			
Vapour pressure	<i>not determined</i>			
Vapour density	<i>not determined</i>			
Density	≈ 1 g/cm ³	20 °C		
Bulk density	<i>not determined</i>			
Water solubility	completely miscible	20 °C		
Partition coefficient: n-octanol/water	<i>not determined</i>			
Dynamic viscosity	<i>not determined</i>			
Kinematic viscosity	<i>not determined</i>	40 °C		

9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product itself does not burn.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

* 10.4. Conditions to avoid

Stable under recommended storage and handling conditions.

* 10.5. Incompatible materials

Alkali (lye)

* 10.6. Hazardous decomposition products

Thermal decomposition can lead to the escape of irritating gases and vapours.

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SECTION 11: Toxicological information

* 11.1. Information on toxicological effects

CAS No.	Substance name	Toxicological information
9038-95-3	1-[2-[2-(3-methoxypropoxy)propoxy]ethoxy]butane	LD₅₀ oral: >200 - <2,000 mg/kg
	fatty alcohol alkoxyolate 4	LD₅₀ oral: >300 - <2,000 mg/kg (Rat)
5949-29-1	citric acid monohydrate	LD₅₀ oral: =5,400 mg/kg (Mouse) LD₅₀ dermal: >2,000 mg/kg (Rat)
28348-53-0	sodium p-cumenesulphonate	LD₅₀ oral: >7,000 mg/kg (Rat) LD₅₀ dermal: >2,000 mg/kg (Rabbit) LC₅₀ Acute inhalation toxicity (vapour): =6.41 mg/l (Rat)

Acute oral toxicity:

Harmful if swallowed.

Acute dermal toxicity:

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

Acute inhalation 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:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Germ cell mutagenicity:

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

Carcinogenicity:

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

Reproductive toxicity:

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

STOT-single exposure:

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

STOT-repeated exposure:

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

Aspiration hazard:

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

Additional information:

No data available

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SECTION 12: Ecological information

12.1. Toxicity

CAS No.	Substance name	Toxicological information
9038-95-3	1-[2-[2-(3-methoxypropoxy)propoxy]ethoxy]butane	LC₅₀ : >100 mg/l 4 d (fish-, Brachydanio rerio (zebra-fish-)) EC₅₀ : >100 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) EC₅₀ : >100 mg/l 3 d (Algae/water plant, Scene desmus subspicatus)
	fatty alcohol alkoxyolate 4	LC₅₀ : >1 - <10 mg/l 2 d (fish-, Leuciscus idus (golden orfe)) NOEC : >0.1 - <1 mg/l 21 d
67-63-0	Propan-2-ol	EC₅₀ : >1,000 mg/l 3 d (Algae/water plant, Scenedesmus subspicatus)
5949-29-1	citric acid monohydrate	LC₅₀ : =440 mg/l 2 d (fish-, Leuciscus idus (golden orfe))
28348-53-0	sodium p-cumenesulphonate	LC₅₀ : >1,000 mg/l 4 d (fish-, Oncorhynchus mykiss (Rainbow trout)) EC₅₀ : >1,000 mg/l 2 d (crustaceans, Daphnia magna (Big water flea)) ErC₅₀ : >230 mg/l 4 d (Algae/water plant)

12.2. Persistence and degradability

CAS No.	Substance name	Biodegradation	Remark
9038-95-3	1-[2-[2-(3-methoxypropoxy)propoxy]ethoxy]butane	Yes, rapidly	
	fatty alcohol alkoxyolate 4	Yes, rapidly	
67-63-0	Propan-2-ol	Yes, rapidly	
5949-29-1	citric acid monohydrate	Yes, rapidly	
28348-53-0	sodium p-cumenesulphonate	Yes, rapidly	

12.3. Bioaccumulative potential

CAS No.	Substance name	Log K _{OW}	Bioconcentration factor (BCF)
67-63-0	Propan-2-ol	-0.16	

12.4. Mobility in soil

No data available

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

* 13.1. Waste treatment methods

13.1.1. Product/Packaging disposal

Waste codes/waste designations according to EWC/AVV

Waste code product:

20 01 29 *	Detergents containing hazardous substances
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*: Evidence for disposal must be provided.

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Waste code packaging:

15 01 10 * packaging containing residues of or contaminated by dangerous substances

*: Evidence for disposal must be provided.

Waste treatment options

Appropriate disposal / Product:

Consult the appropriate local waste disposal expert about waste disposal.

Appropriate disposal / Package:

Completely emptied packages can be recycled.

SECTION 14: Transport information

No dangerous good in sense of these transport regulations.

Land transport (ADR/RID)	Inland waterway craft (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1. UN-No.			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.2. UN proper shipping name			
No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.	No dangerous good in sense of these transport regulations.
14.3. Transport hazard class(es)			
not relevant			
14.4. Packing group			
not relevant			
14.5. Environmental hazards			
not relevant			
14.6. Special precautions for user			
not relevant			

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
not relevant

SECTION 15: Regulatory information

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

15.1.1. EU legislation

Other regulations (EU):

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]: This product is not assigned to a hazard category.

Regulation (EC) No. 648/2004 (Detergents regulation)

15-30% non-ionic surfactants

15.1.2. National regulations

No data available

15.2. Chemical Safety Assessment

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

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SECTION 16: Other information

16.1. Indication of changes

1.1.	Product identifier
2.1.	Classification of the substance or mixture
2.2.	Label elements
3.2.	Mixtures
6.3.	Methods and material for containment and cleaning up
9.1.	Information on basic physical and chemical properties
10.4.	Conditions to avoid
10.5.	Incompatible materials
10.6.	Hazardous decomposition products
11.1.	Information on toxicological effects
13.1.	Waste treatment methods
15.1.	Safety, health and environmental regulations/legislation specific for the substance or mixture

16.2. Abbreviations and acronyms

No data available

16.3. Key literature references and sources for data

No data available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Classification according to Regulation (EC) No 1272/2008 [CLP]-:

Hazard classes and hazard categories	Hazard statements	Classification procedure
Acute toxicity (oral) (<i>Acute Tox. 4</i>)	H302: Harmful if swallowed.	
Serious eye damage/eye irritation (<i>Eye Irrit. 2</i>)	H319: Causes serious eye irritation.	

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

Hazard statements	
H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

16.6. Training advice

No data available

16.7. Additional information

No data available

* Data changed compared with the previous version