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

1.1. Product identifier

Trade name

Oldomat Klar - Original

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

Use of the substance/mixture

Clear rinsing agent/ Wetting 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)

Eye Irrit. 2	H319

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

Warning

Hazard statements

H319	Causes serious eye irritation.

Precautionary statements

P280.9	Wear eye 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.
P337+P313	If eye irritation persists: Get medical advice/attention.

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 *

fatty alcohol alkoxylate

Registration no.	NICHT RELEVANT (POLYMER)				
Concentration		>=	1	<	9,1 %
Acute Tox. 4	H302				
Eye Irrit. 2	H319				
Aquatic Chronic 3	H412				
Aquatic Acute 1	H400				

cATpE	oral	500	mg/kg

Alcohols, C13-15-branched and linear, butoxylated ethoxylated

CAS No.	111905-53-4				
EINECS no.	601-137-4				
Registration no.	IRRELEVANT (POLYMER)				
Concentration		>=	1	<	8,7 %
Acute Tox. 4	H302				
Eye Irrit. 2	H319				
Aquatic Chronic 3	H412				

cATpE	oral	500	mg/kg

Citric acid, anhydrous

CAS No.	77-92-9				
EINECS no.	201-069-1				
Registration no.	01-2119457026-42-XXXX				
Concentration		>=	1	<	10 %
Eye Irrit. 2	H319				
STOT SE 3	H335				

ethanol

CAS No.	64-17-5				
EINECS no.	200-578-6				
Registration no.	01-2119457610-43-XXXX				
Concentration		>=	1	<	10 %
Flam. Liq. 2	H225				
Eye Irrit. 2	H319				

potassium cumenesulphonate

CAS No.	164524-02-1				
EINECS no.	629-764-9				
Registration no.	01-2119489427-24-XXXX				
Concentration		>=	1	<	10 %
Eye Irrit. 2	H319				

sodium cumenesulphonate

CAS No.	15763-76-5				
EINECS no.	239-854-6				
Registration no.	01-2119489411-37-XXXX				
Concentration		>=	1	<	10 %
Eye Irrit. 2	H319				

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.

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

ethanol

List	EH40			
Type	WEL			
Value	1920	mg/m³	1000	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

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	colourless
Odour	alcohol-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	appr.	3,05	
Concentration/H2O		1	%

Viscosity

Value	appr.	15	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

Value	appr.	1,02	kg/l

Vapour density

Remarks: not determined

Particle characteristics

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

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	4.662	mg/kg
Method	calculated value (Regulation (EC) No. 1272/2008)	

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

Acute oral toxicity (Components)

Citric acid, anhydrous

Acute dermal toxicity

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

Acute dermal toxicity (Components)

Citric acid, anhydrous

Acute inhalational toxicity

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

Skin corrosion/irritation

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

Skin corrosion/irritation (Components)

Reference substance	Citric acid, anhydrous
Species	rabbit
evaluation	non-irritant

Serious eye damage/irritation

evaluation	irritant

The classification criteria are met.

Serious eye damage/irritation (Components)

Reference substance	Citric acid, anhydrous
Species	rabbit
evaluation	irritant

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

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous			
Species	golden orfe (Leuciscus idus)			
LC50	440	to	760	mg/l
Duration of exposure	96	h		

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate			
Species	carp (Cyprinus carpio)			
LC50	> 100			mg/l
Duration of exposure	96	h		
Method	OECD 203			

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate			
Species	carp (Cyprinus carpio)			
LC50	> 100			mg/l
Duration of exposure	96	h		
Method	OECD 203			

Daphnia toxicity

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous			
Species	Daphnia magna			
EC50	appr. 120			mg/l
Duration of exposure	72	h		

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate			
Species	Daphnia magna			
EC50	> 100			mg/l
Duration of exposure	48	h		
Method	OECD 202			

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate			
Species	Daphnia magna			
EC50	> 10			mg/l
Duration of exposure	48	h		
Method	OECD 202			

Algae toxicity

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous			
Species	Scenedesmus quadricauda			
IC50	640			mg/l
Duration of exposure	7	d		

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate			
Species	Desmodesmus subspicatus			
EC50	> 100			mg/l
Duration of exposure	72	h		

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate			
Species	Desmodesmus subspicatus			
EC50	> 100			mg/l

Duration of exposure	72	h	

Bacteria toxicity

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous		
Species	Pseudomonas putida		
EC50	> 10000		mg/l
Duration of exposure	16	h	

potassium cumenesulphonate

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

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate		
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

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous		
Value	97		%
Duration of test	28	d	
evaluation	readily degradable		
Method	OECD 301 B		
	Citric acid, anhydrous		
Value	100		%
Duration of test	19	d	
evaluation	readily degradable		
Method	OECD 301 E		

potassium cumenesulphonate

Reference substance	potassium cumenesulphonate		
Value	> 60		%
Duration of test	28	d	
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 301 B		

sodium cumenesulphonate

Reference substance	sodium cumenesulphonate		
Value	> 60		%
Duration of test	28	d	
evaluation	Readily biodegradable (according to OECD criteria)		
Method	OECD 301 B		

Chemical oxygen demand (COD)

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous	
Value	728	mg/g

Biochemical oxygen demand (BOD5)

Citric acid, anhydrous

Reference substance	Citric acid, anhydrous	
Value	526	mg/g

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 envrionment

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

	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)

5 % or over but less than 15 %:

non-ionic surfactants

VOC

VOC (EU)	3,92	%

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]:

Eye Irrit. 2	H319	Calculation method

Hazard statements listed in Chapter 2/3

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 2/3

Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Irrit. 2	Eye irritation, Category 2
Flam. Liq. 2	Flammable liquid, 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
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.