

* Spezial OSM

Date revised: 13.09.2023

8750180921

Version: 4 / GB

Master No. MA-211

Print date: 17.04.2024

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

1.1. Product identifier

Trade name

Spezial OSM

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 & 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)

Skin Irrit. 2 H315

Eye Dam. 1 H318

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

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements

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

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

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.

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

contains *** Amines, C12-C14-Alkyldimethyl-N-oxides; Sulphuric acid

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 *******Sulphuric acid**

CAS No.	7664-93-9
EINECS no.	231-639-5
Registration no.	01-2119458838-20-XXXX
Concentration	>= 5 < 10 %
Skin Corr. 1A	H314
Met. Corr. 1	H290

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

Eye Irrit. 2	H319	>= 5 < 15 %
Skin Corr. 1A	H314	>= 15 %
Skin Irrit. 2	H315	>= 5 < 15 %

Additional remarks:

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

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

Amines, C12-C14-Alkyldimethyl-N-oxides

CAS No.	308062-28-4
EINECS no.	931-292-6
Registration no.	01-2119490061-47-XXXX
Concentration	>= 1 < 2,5 %
Eye Dam. 1	H318
Aquatic Acute 1	H400
Aquatic Chronic 2	H411
Acute Tox. 4	H302
Skin Irrit. 2	H315

ATE oral 1.064 mg/kg

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.

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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, Alcohol-resistant foam, 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**

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Sulphuric acid

List	EH40		
Type	OES		
Value	1	mg/m ³	

Maximum limit value; Skin resorption / sensibilisation; Pregnancy group: Status: 2003; Remarks: CHAN

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	Product specific		
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		

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pH value

Value	appr.	1,7	
Concentration/H ₂ O		1	%

Solubility in other solvents

not determined

Octanol/water partition coefficient (log Pow)

Remarks	Not relevant
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Vapour pressure

Remarks	not determined
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Density

Value	appr.	1,10	kg/l
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Vapour density

Remarks	not determined
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Particle characteristics

Remarks	irrelevant (liquid)
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9.2. Other information**Odour threshold**

Remarks	No data available
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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
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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)**Citric acid, anhydrous****Amines, C12-C14-Alkyldimethyl-N-oxides**

Reference substance	Amines, C12-C14-Alkyldimethyl-N-oxides		
Species	rat		
LD50		1064	mg/kg

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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

evaluation	irritant
The classification criteria are met.	

Skin corrosion/irritation (Components)

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

Serious eye damage/irritation

evaluation	corrosive
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 (<i>Leuciscus idus</i>)			
LC50	440	to	760	mg/l
Duration of exposure	96	h		

Amines, C12-C14-Alkyldimethyl-N-oxides

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Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides
LC50 2,67 mg/l

Sulphuric acid

Reference substance sulphuric acid ... %
Species sun perch
LC50 16 to 28 mg/l
Duration of exposure 96 h

Daphnia toxicity**Citric acid, anhydrous**

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

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides
Species Daphnia pulex
EC50 3,1 mg/l

Sulphuric acid

Reference substance sulphuric acid ... %
Species Daphnia magna
EC50 > 100 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

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance Amines, C12-C14-Alkyldimethyl-N-oxides
IC50 0,143 mg/l

Sulphuric acid

Reference substance sulphuric acid ... %
Species Desmodesmus subspicatus
IC50 > 100 mg/l
Duration of exposure 72 h
Method OECD 201

Bacteria toxicity**Citric acid, anhydrous**

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

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	Citric acid, anhydrous	
Value	100	%
Duration of test evaluation	19 d	
Method	readily degradable OECD 301 E	

Amines, C12-C14-Alkyldimethyl-N-oxides

Reference substance evaluation	Amines, C12-C14-Alkyldimethyl-N-oxides biodegradable
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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 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

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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 %:

non-ionic surfactants

VOC

VOC (EU) 0 %

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]:

Skin Irrit. 2	H315	Calculation method
Eye Dam. 1	H318	Calculation method

Hazard statements listed in Chapter 2/3

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.

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H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H411	Toxic 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 2	Hazardous to the aquatic environment, chronic, Category 2
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Met. Corr. 1	Substance or mixture corrosive to metals, Category 1
Skin Corr. 1A	Skin corrosion, Category 1A
Skin Irrit. 2	Skin irritation, 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

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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.