

# 8750322211 Version: 11 / 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 Z

#### 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 STOT SE 3 H335 Aquatic Chronic 3 H412

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. H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

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

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P273 Avoid release to the environment.

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

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing.



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

P310 Immediately call a POISON CENTER or doctor.

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

contains alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16)); Amines,

C12-C14-Alkyldimethyl-N-oxides; Citric acid, anhydrous

#### 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**

#### Citric acid, anhydrous

CAS No. 77-92-9 EINECS no. 201-069-1

Registration no. 01-2119457026-42-XXXX

Concentration >= 25 < 50

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

#### alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

CAS No. 68424-85-1 EINECS no. 270-325-2

Concentration >= 1 < 2,5 %

Acute Tox. 4 H302 Skin Corr. 1B H314 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

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

Aguatic Acute 1 H400 M = 10

ATE oral 397,5 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.



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

#### 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**

List There is not known any national exposure limit.



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

#### 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 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

pH value

Value 2,0 to 3,0 Concentration/H2O 1 %

**Viscosity** 

Value 20 s

Method DIN 53211 4 mm



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

Solubility in other solvents

not determined

Octanol/water partition coefficient (log Pow)

Remarks Not relevant

Vapour pressure

Remarks not determined

**Density** 

Value appr. 1,20 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 > 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

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Reference substance alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Species rat

LD50 397,5 mg/kg



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

Amines, C12-C14-Alkyldimethyl-N-oxides

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

Species rat

LD50 1064 mg/kg

**Acute dermal toxicity** 

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

**Acute dermal toxicity (Components)** 

Citric acid, anhydrous

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Reference substance alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Species rabbit

LD50 3412 mg/kg

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

The classification criteria are met.

evaluation May cause respiratory irritation.

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**



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

#### 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

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Reference substance alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

\_C50 0,515 mg/l

Amines, C12-C14-Alkyldimethyl-N-oxides

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

**Daphnia toxicity** 

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

Species Daphnia magna

EC50 0,016 mg/l

Duration of exposure 48 h

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

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

**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



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

Citric acid, anhydrous

Value 100 %

Duration of test 19 devaluation readily degradable Method OECD 301 E

alkyl (c12-16) dimethylbenzyl ammonium chloride (adbac/bkc (c12-16))

evaluation Readily biodegradable (according to OECD criteria)

Amines, C12-C14-Alkyldimethyl-N-oxides

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

evaluation biodegradable

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**



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

	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, cationic surfactants, anionic 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
STOT SE 3	H335	Calculation method
Aquatic Chronic 3	H412	Calculation method

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

H302 Harmful if swallowed.



* <b>Spezial Z</b> # 8750322211	Version: 11 / GB	Master No. MA-211	Date revised: 21.04.2023 Print date: 17.04.2024	
H314	Causes severe skin burns	s and eye damage.		
H315	Causes skin irritation.	, c		
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H335	May cause respiratory irritation.			
H400	Very toxic to aquatic life.			
H410	Very toxic to aquatic life with long lasting effects.			
H411	Toxic to aquatic life with long lasting effects.			
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 1 Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic, Category 2
Aquatic Chronic 3 Hazardous to the aquatic environment, chronic, Category 3

Eye Dam. 1 Serious eye damage, Category 1
Eye Irrit. 2 Eye irritation, Category 2
Skin Corr. 1B Skin corrosion, Category 1B
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



# 8750322211 Version: 11 / GB Master No. MA-211 Print date: 17.04.2024

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.